ORDER NO. MD9105029C2

Service Manual

Stereo Music System

SA-HM42

QUARTZ Synthesizer MW/LW/FM Stereo Radio with Double Cassette Tape Deck

DOLBY SYSTEM*

Color

(K)... Black Type

Area

Country Code	Area	Color
(E)	Continental Europe.	(K)
(EB)	Great Britain.	

System name	Unit
SG-HM42 (E)	SG-HM42 (E) [SA-HM42 (E) Music Center SL-HM42B (P) Player
	SB-ZM42 (E) Speaker System (Made in PA)
SG-HM42 (EB)	SG-HM42 (EB) [SA-HM42 (EB) Music Center SL-HM42B (P) Player
	SB-ZM42 (E) Speaker System (Made in PA)

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

SG-HM09 MECHANISM SERIES (SG20W)

SPECIFICATIONS

■ AMPLIFIER SECTION

Input sensitivity and impedance	
CD	400 mV/27 kΩ
AUX	250 mV/27 kΩ
Graphic equalizer	±10 dB (100 Hz, 330 Hz, 1 kHz, 3.3 kHz, 10 kHz)
Load impedance	4~16Ω

■ FM TUNER SECTION

Frequency range	87.50~108.00 MHz
Sensitivity	25.2 dBf (5 µV, IHF'58)
S/N 26 dB	3.8 µV (40 kHz mod., 75Ω)
Total harmonic distortion	
MONO	0.3%
STEREO	0.5%
S/N	
MONO	60 dB (65 dB, IHF)
Image rejection at 98 MHz	35 dB
Stereo separation	
1 kHz	35 dB
Antenna terminals	75Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	
MW	522~1611 kHz
LW	144~288 kHz
Sensitivity (for 500 mW)	
MW (at 999 kHz)	200 µV/m
LW (at 252 kHz)	500 µV/m

Panasonic

■ CASSETTE DECK SECTION

Track system	4-track, 2-channel
Heads	
playback	Solid permalloy head
record/playback	Solid permalloy head
erasure	Double-gap ferrite head
Motor	DC servo motor
Recording system	AC bias, 85 kHz
Erase system	AC erase, 85 kHz
Tape speed	4.8 cm/sec. (1⅞ ips)
Frequency response	
NORMAL	40 Hz~14 kHz, $^{+3}_{-8}$ dB
CrO_2	40 Hz~15 kHz, $^{+3}_{-8}$ dB
S/N	
Dolby NR off	53 dB (A-WTD)
Dolby NR on	62 dB (CCIR)
Wow and flutter	0.15% (WRMS)

■ GENERAL

Power consumption	91 W
Power supply	
For (E) area:	AC50 Hz, 230 V
For (EB) area:	AC50 Hz, 230~240 V
Dimensions (W×H×D)	360×298×357.6 mm (14³⁄₁₆″×11²³⁄₃₂″×14¹⁄₁₆″)
Weight	5.25 kg (11.57 lb.)

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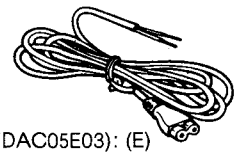
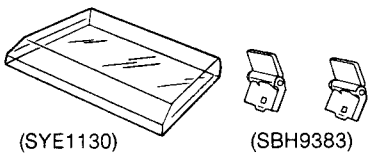
■ ACCESSORIES (System of SG-HM42)

- AC power supply cord ..... 1 pc.



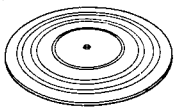
(SFDAC05E03): (E)
(RJA86ZB-K): (EB)

- Dust cover and hinges .... 1 and 2 pcs.

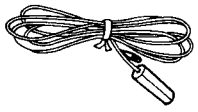


(SYE1130) (SBH9383)

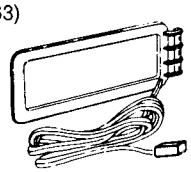
- Platter mat ..... 1 pc.
(SJY4076)



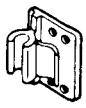
- FM indoor antenna ..... 1 pc.
(SSA269)



- AM loop antenna ..... 1 pc.
(SPB1163)

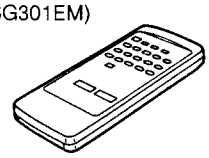


- AM antenna holder ..... 1 pc.
(SMA233-1)

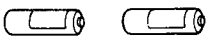


- Screws ..... 2 pcs.
(XTB3+10J)

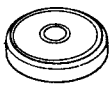
- Remote-control transmitter ..... 1 pc.
(RAK-SG301EM)



- Batteries ..... 2 pcs.
(UM-4NEP/2S)



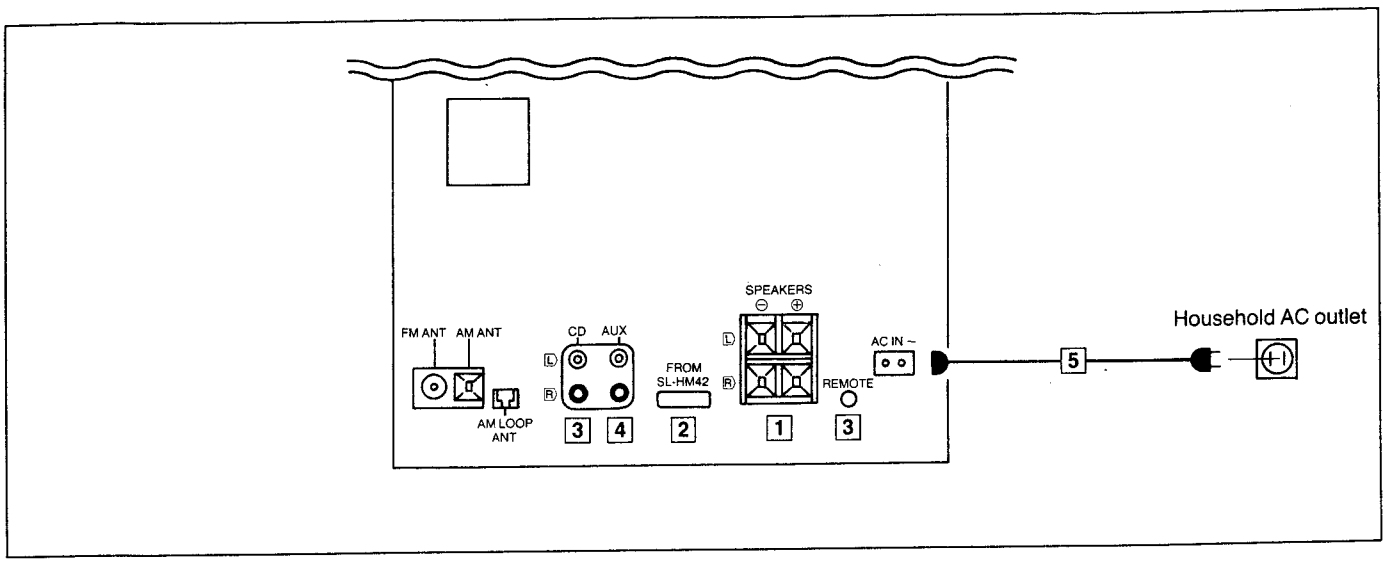
- 45-rpm adaptor ..... 1 pc.
(SJY5018-1)



- Attachment plug ..... 1 pc.
(SJP9009)

Note: Configuration of AC power supply cord and FM indoor antenna differs according to area.

■ CONNECTIONS

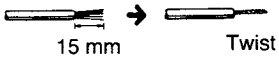


1 "SPEAKERS" terminals

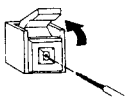
The impedance of any speaker used with this unit must be 4–16 ohms.
Be sure to connect the striped cords to the negative terminals.

Connection of speaker cords

① Strip off the outer covering, and twist the center conductor.



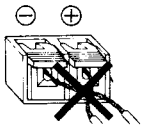
② Tilt the lever back and insert the cord.



③ Close the lever and pull the cord gently to be sure that it is secured.

Notes:

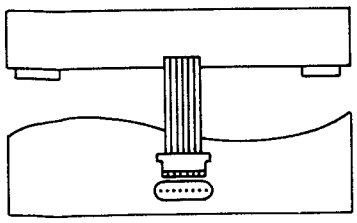
- To prevent damage to circuitry, never short-circuit positive (+) and negative (−) speaker terminals.



- Be sure to only connect positive (+) cords to positive (+) terminals, and negative (−) cords to negative (−) terminals.
- Connections of speaker cords should be made before connecting the AC power supply cord.

2 System player terminals

Connect the turntable (included with the system), which was especially designed for use with this system, to these terminals.

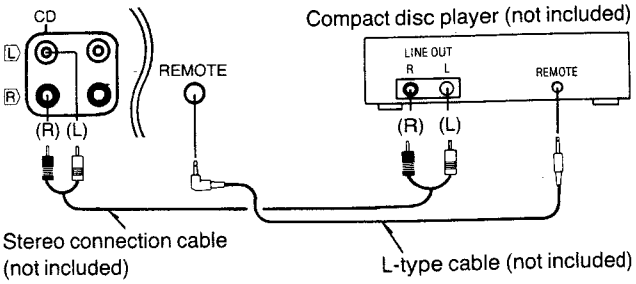


3 "CD" and "REMOTE" terminals

Connect a compact disc player.

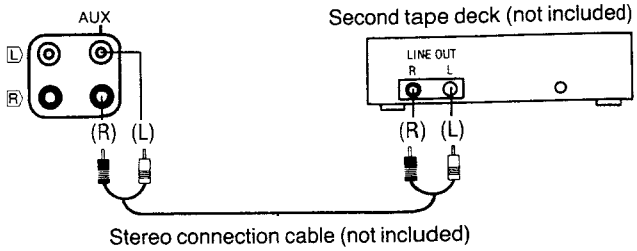
Notes:

The "REMOTE" terminal is for connection with the remote-control terminal of a compact-disc player manufactured by our company. When this connection is made, operations can be controlled by using the remote-control transmitter of this unit.



4 "AUX" terminals

Connect a second tape deck (for playback only) etc.



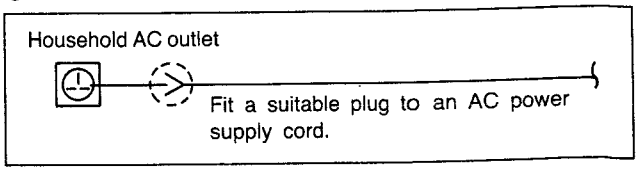
5 AC power supply cord

① Connect this cord only after all other cables have been connected.

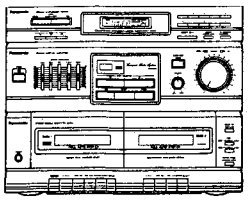
Note:

Configuration of the AC outlet and AC power supply cord differ according to area.

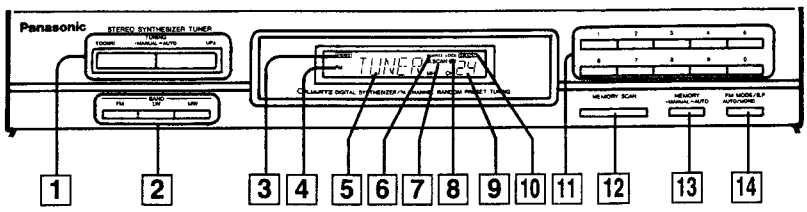
② **For United Kingdom**



■ FRONT PANEL CONTROLS AND FUNCTIONS



The indication AM used here includes both MW and LW.



Tuner section

1 Tuning buttons (TUNING)
These buttons are used for tuning to the desired broadcast station.

2 Band selectors (BAND)
These selectors are used to select the band.

3 FM stereo indicator (STEREO)
This indicator automatically illuminates when an FM stereo broadcast is being received.
It will not illuminate if the FM mode selector is set to the monaural mode.

4 Band indicator (FM, LW, MW)
This indicator indicates the band selected by using the band selector.

5 Digital frequency/input display
This display shows the sound source selected by pressing one of the input selectors. If the "TUNER" input selector is pressed, there will be a change to the frequency after the source is indicated.

6 Quartz-lock indicator (QUARTZ LOCK)
This indicator illuminates when the tuner is precisely tuned to a broadcast station.

7 Memory scan indicator (M. SCAN)
This indicator illuminates when the memory scanning is activating.

8 Memory indicator (M)
This indicator illuminates when the memory button is pressed.

9 Channel display
This display shows the channel number selected by one of the preset-tuning buttons.

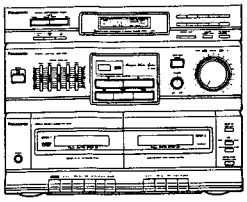
10 Super bass indicator (BASS)
This indicator illuminates when the super bass functions.

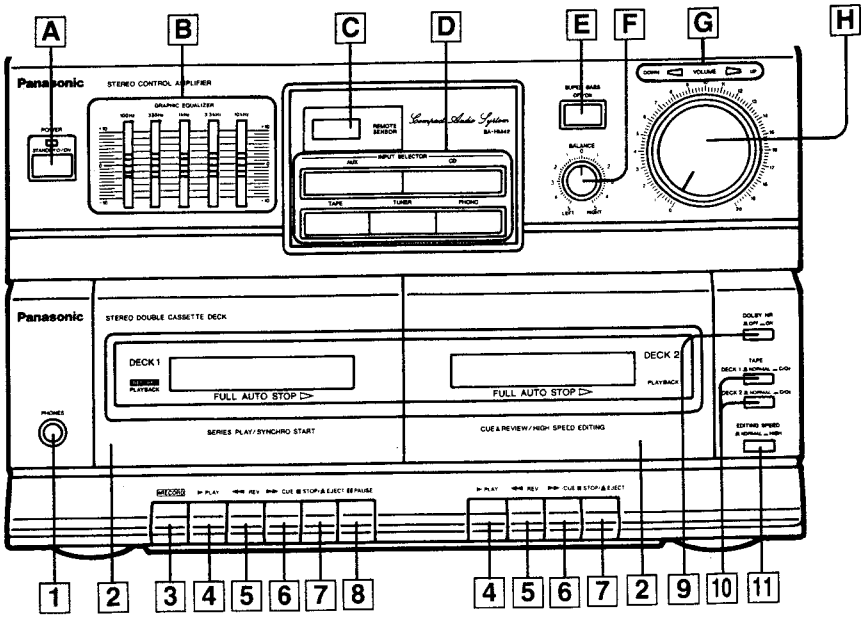
11 Preset-tuning buttons (1–0)
These buttons are used to preset broadcast frequencies into the memory of this unit, and are also pressed to recall the desired preset stations.

12 Memory scan button (MEMORY SCAN)
This button can be used to locate a desired broadcast station; each broadcast station is selected for about four seconds.

13 Memory button (MEMORY)
This button can be used when presetting broadcast station frequencies to the memory.

14 FM mode selector/beat prevention button (FM MODE/B.P)
This unit automatically switches to the stereo mode when a stereo broadcast is received.
This selector is used to select the mode (stereo or monaural) of FM broadcast signals.
And this selector is used to be reduced interference noise during recording of an AM (LW, MW) broadcast.





Amplifier section

A Power "STANDBY ⏻/ON" switch (POWER/STANDBY ⏻/ON)
This switch switches ON and OFF the secondary circuit power only. The unit is in the "standby" condition when this switch is set to the STANDBY ⏻ position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

B Equalizer controls (GRAPHIC EQUALIZER)
These controls are for compensation of tonal quality. By sliding the controls at each of the indicated frequencies in the "+" direction, the tonal quality is increased, and by sliding them in the "−" direction, the tonal quality is decreased.

C Remote-control signal receptor (REMOTE SENSOR)
Receives the signals from the remote-control transmitter.

D Input selectors (INPUT SELECTOR)
These selectors are used to select the sound source to be heard, such as a phono disc, radio broadcast, etc.

E Super bass button (SUPER BASS)
When this button is pressed, the dynamic low frequency ranges are boosted.

F Balance control (BALANCE)
This control can be used to adjust the balance of sound heard from the left and right speaker systems.

G Volume-level adjustment indicators
One of these indicators flashes continually to indicate when the sound volume level is being adjusted by using the volume controls on the remote-control transmitter.
UP (▷): When increasing the volume level.
DOWN (◁): When reducing the volume level.

H Volume control (VOLUME)

Cassette deck section

1 Headphones jack (PHONES)

2 Cassette holder

3 Record button (● RECORD)
This button is used when making a recording (tape deck 1 only).

4 Playback button (▶ PLAY)

5 Rewind/review button (◀◀/REV)
This button is used to rewind the tape. During playback this button is used to review while listening to the contents at high speed.

6 Fast forward/cue button (▶▶/CUE)
This button is used to advance the tape. During playback this button is used to cue while listening to the contents at high speed.

7 Stop/eject button (■ STOP/▲ EJECT)
This button is used to open the cassette holder, and to stop tape movement.

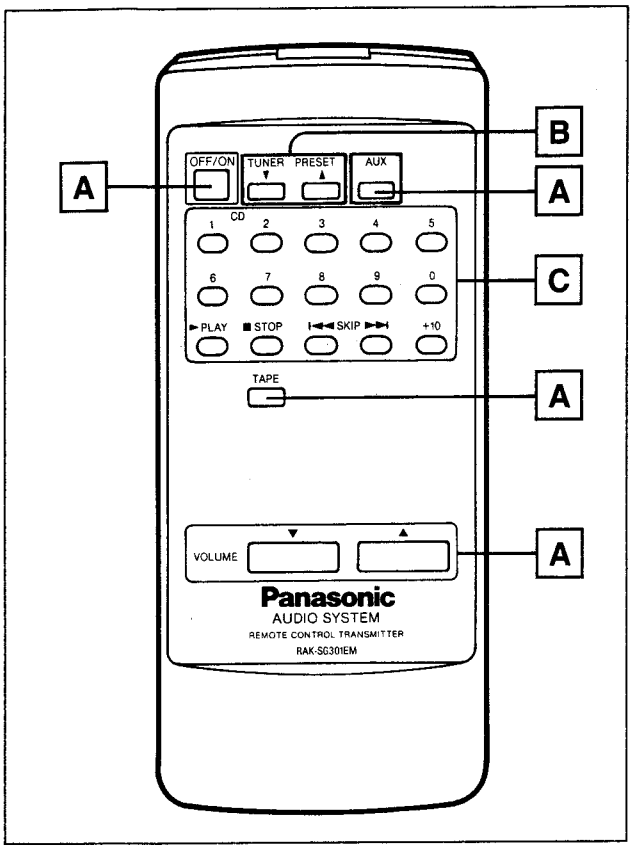
8 Pause button (❚❚ PAUSE)
This button is used to temporarily stop the tape playback or recording of tape deck 1 only.

9 Dolby noise-reduction switch (DOLBY NR)
This switch can be used to reduce the amount of the characteristic "hissing" noise heard from the tape.

10 Tape selector button (TAPE)
Press this button when using the high bias chromium tape or equivalent.

11 Tape-to-tape recording speed selector (EDITING SPEED)
This selector is used to select the recording speed when a tape-to-tape recording is made.

■ REMOTE-CONTROL OPERATION



For detailed information concerning operation steps, etc., please refer to the appropriate page for each unit and the respective operation instructions. For this system, you can listen to tapes or compact discs, etc., by operating the remote-control transmitter without using the input selectors.

A Amplifier controls

OFF/ON

Press this button to switch the unit ON or to the stand-by condition. Note that there is no need to press this button if the unit's power is ON. (if it is pressed, the unit will be switched to the stand-by mode.)

AUX: Press the listen to sound from equipment connected to the "AUX" terminals of this unit.

TAPE: Press to listen to the tapes.

▼ VOLUME ▲

For adjustment of the volume level.

▲: To increase the volume level.

▼: To reduce the volume level.

B Tuner controls

▼ TUNER PRESET ▲

To select a preset channel.

▲: Press to change to a higher channel.

▼: Press to change to a lower channel.

(If either button is pressed and held, the channel will change continuously.)

C Compact-disc controls

For a compact disc player manufactured by our company with a remote-control terminal. (Contact your dealer for details.)

► PLAY

Press this button to start disc play.

■ STOP

Press this button to stop disc play.

Note:

Depending upon the compact disc player used, presettings may be erased when this button is pressed.

I◄◄ SKIP ►►I

Press one of these buttons to select the desired track.

The search mode will be activated when this button is pressed and held.

I◄◄: for a prior track

►►I: for a track ahead

Note: The search function may not be usable with some types of compact-disc players.

1–0, +10

To select the track numbers.

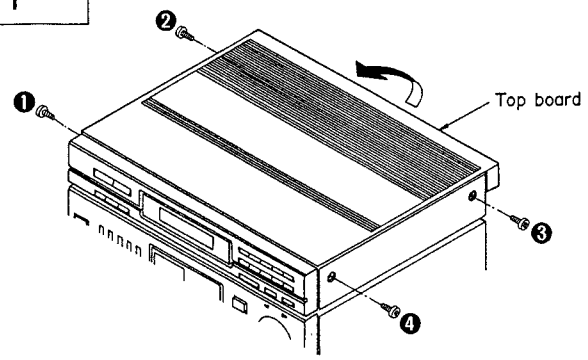
- The play begins automatically from the selected track **when a track is selected while the unit is in the stop mode.**

To select the specific track number

- **Tracks 1–9:** Press the appropriate numeric button 1–9 directly.
- **Tracks 10 and up:** First press +10, then 1–0. (Press +10 twice and 0 for 20, +10 three times and 0 for 30, and so on.)

■ DISASSEMBLY INSTRUCTIONS

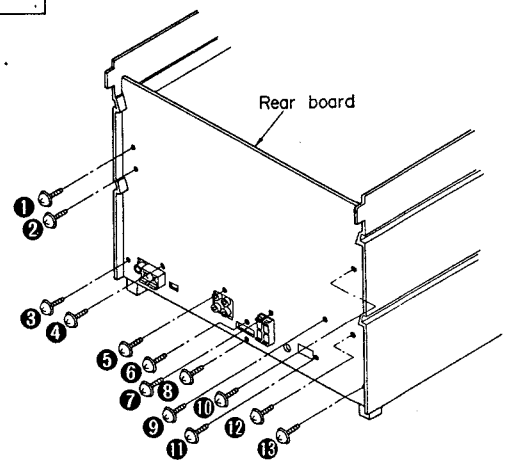
Ref. No. 1	Removal of the top board
Procedure 1	

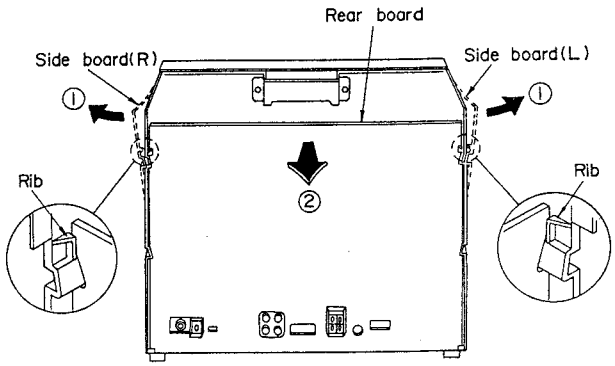


1. Remove the 4 screws (❶~❹).
2. Remove the top board in the direction of arrow.

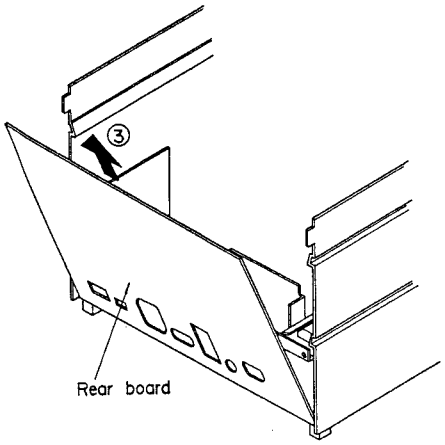
Ref. No. 2	Removal of the rear board
Procedure 1→2	

1. Remove the 13 screws (❶~⓭).



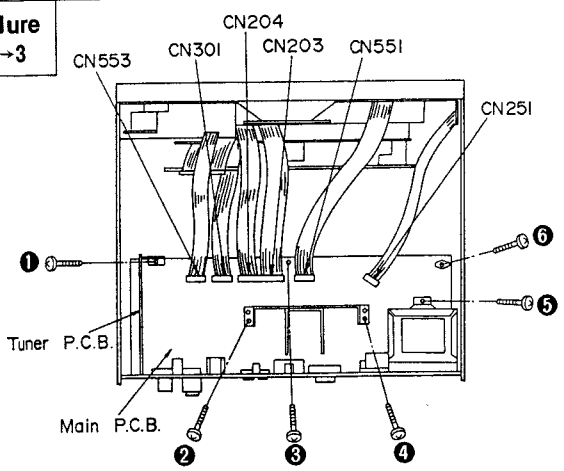


2. Remove the ribs of the side board (L) and (R) in the direction of arrow ①.
3. Remove the rear board in the direction of arrow ②.

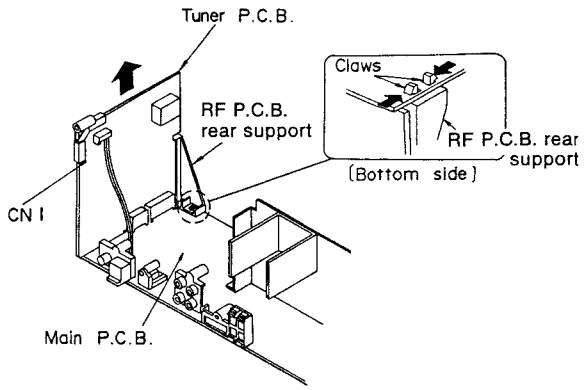


4. Remove the rear board in the direction of arrow ③.

Ref. No. 3	Removal of the main P.C.B. and tuner P.C.B.
Procedure 1→2→3	



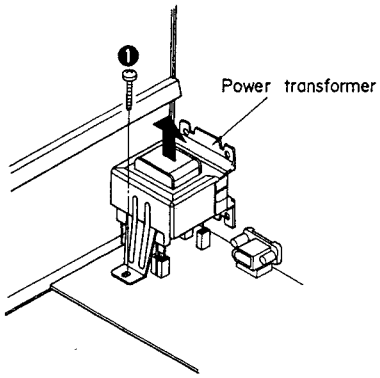
1. Remove the 6 screws (❶~❻).
2. Remove the 6 flat cables (CN203, CN204, CN251, CN301, CN551, CN553).



3. Release the 2 claws and then remove the RF P.C.B. rear support.
4. Remove the 1 connector (CN1).
5. Pull out the tuner P.C.B. in the direction of arrow.

Ref. No. 4	Removal of the power transformer

Procedure 1→2→4

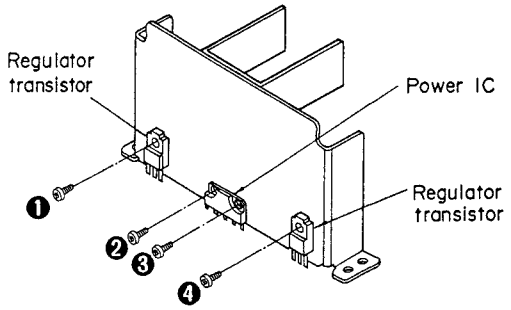


1. Remove the 1 screw (❶).
2. Pull out the power transformer in the direction of arrow.

Ref. No. 5	Removal of the power IC and regulator transistor

Procedure 1→2→3→5

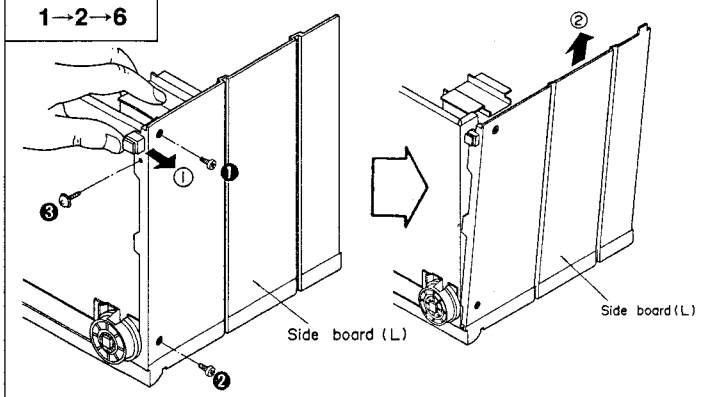
1. Remove the 4 screws (❶~❹).
2. Unsolder the power IC and regulator transistors.



- **When mounting the power IC or regulator transistor.** Apply silicone compound (SZZ0L15) to the rear side of power IC or regulator transistor.

Ref. No. 6	Removal of the side board (L)

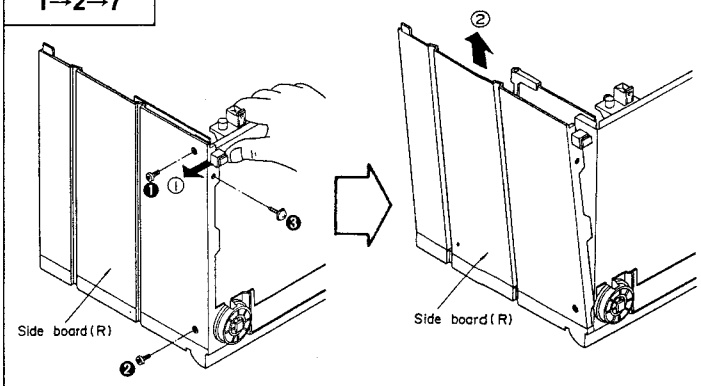
Procedure 1→2→6



1. Remove the 3 screws (❶~❸).
2. Remove the side board (L) in the direction of arrow ①.
3. Pull out the side board (L) in the direction of arrow ②.

Ref. No. 7	Removal of the side board (R)

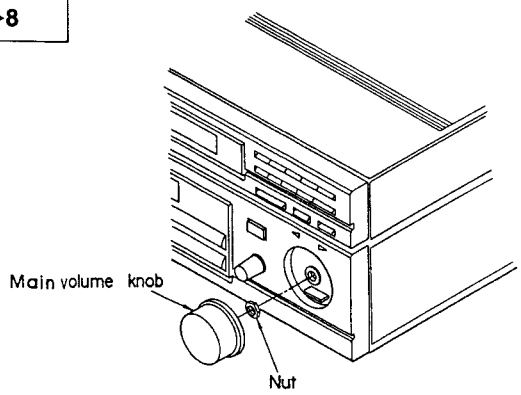
Procedure 1→2→7

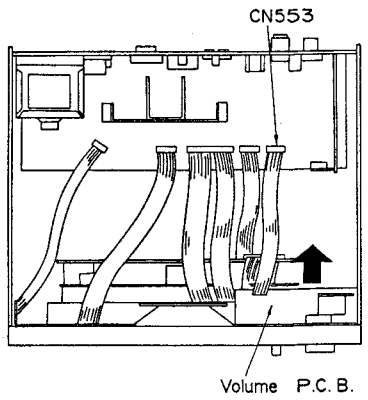


1. Remove the 3 screws (❶~❸).
2. Remove the side board (R) in the direction of arrow ①.
3. Pull out the side board (R) in the direction of arrow ②.

Ref. No. 8	Removal of the volume P.C.B.

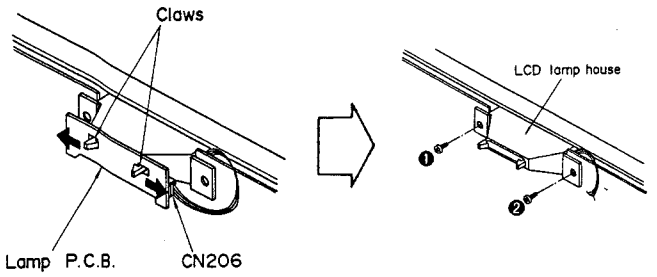
Procedure 1→8





1. Pull out the main volume knob.
2. Remove the nut.
3. Remove the 1 flat cable (CN553).
4. Remove the volume P.C.B. in the direction of arrow.

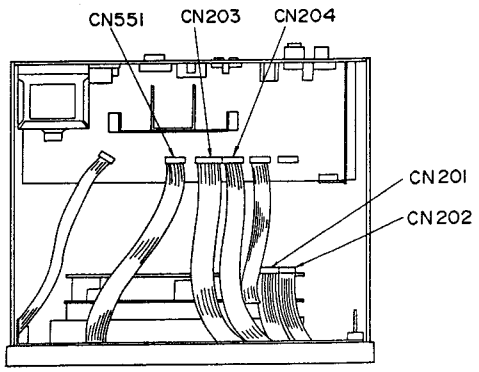
Ref. No. 9	Removal of the lamp P.C.B. and LCD lamp house
Procedure 1→9	

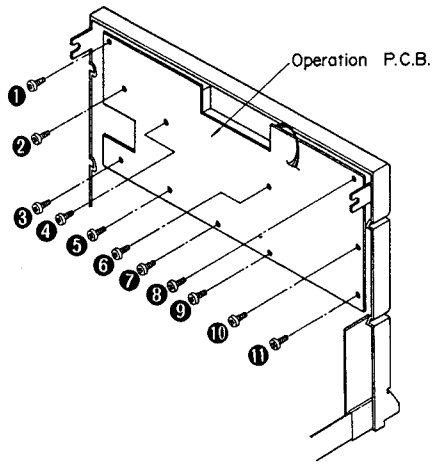


1. Remove the 1 connector (CN206).
2. Release the 2 claws and then remove the lamp P.C.B.
3. Remove the 2 screws (❶, ❷).

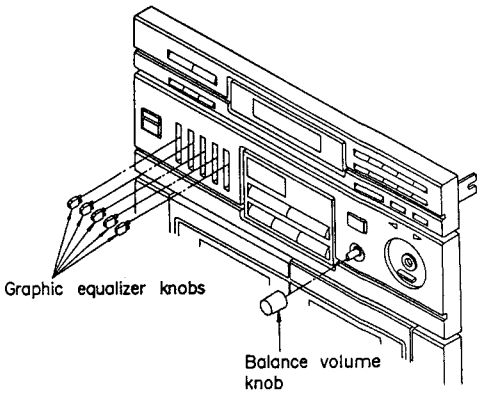
Ref. No. 10	Removal of the operation P.C.B.
Procedure 1→2→6→7 →8→9→10	

1. Remove the 5 flat cables (CN201, CN202, CN203, CN204, CN551).



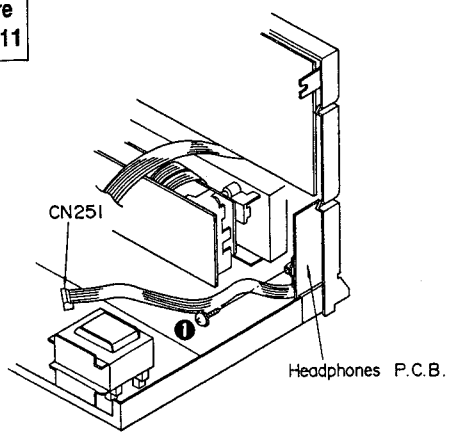


4. Remove the 11 screws (❶~⓫).



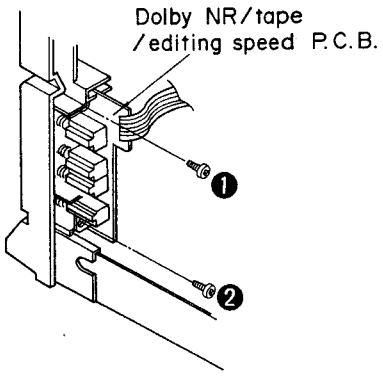
2. Pull out the graphic equalizer knobs.
3. Pull out the balance volume knob.

Ref. No. 11	Removal of the headphones P.C.B.
Procedure 1→2→6→11	



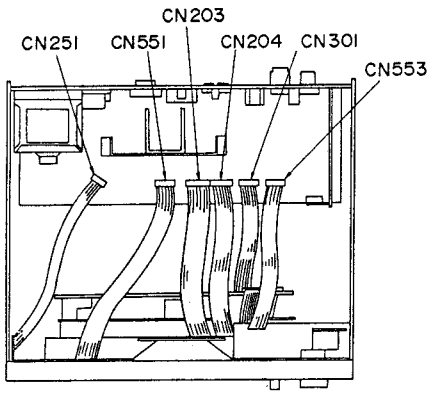
1. Remove the 1 connector (CN251).
2. Remove the 1 screw (❶).

Ref. No. 12	Removal of the dolby NR/tape/ editing speed P.C.B.
Procedure 1→2→7→12	

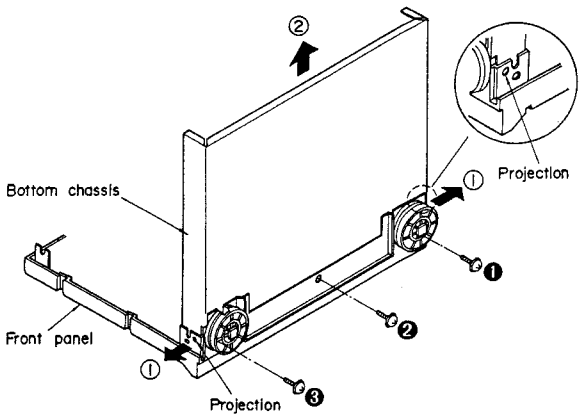


• Remove the 2 screws (❶, ❷).

Ref. No. 13	Removal of the bottom chassis
Procedure 1→2→6→7 →13	

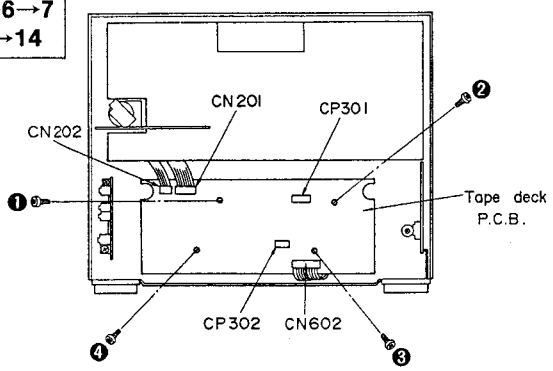


1. Remove the 6 flat cables (CN203, CN204, CN251, CN301, CN551, CN553).



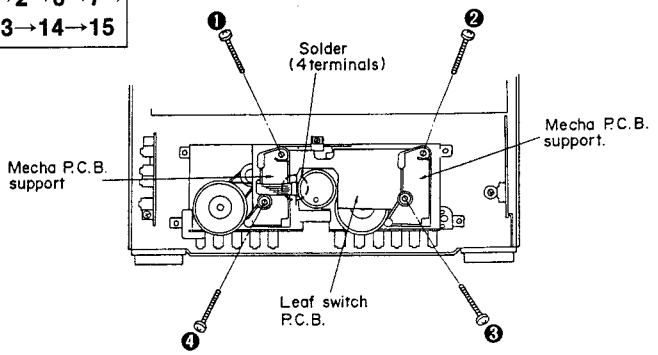
2. Remove the 3 screws (❶~❸).
3. Remove the projection of bottom chassis in the direction of arrow ①.
4. Remove the bottom chassis in the direction of arrow ②.

Ref. No. 14	Removal of the tape deck P.C.B.
Procedure 1→2→6→7 →13→14	



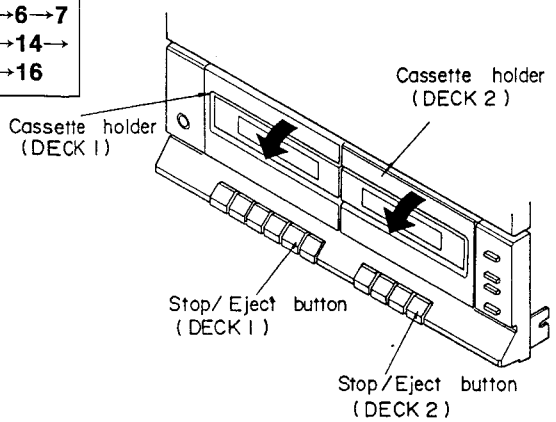
1. Remove the 2 connectors (CP301, CP302).
2. Remove the 3 flat cables (CN201, CN202, CN602).
3. Remove the 4 screws (❶~❹).

Ref. No. 15	Removal of the leaf switch P.C.B.
Procedure 1→2→6→7→ 13→14→15	

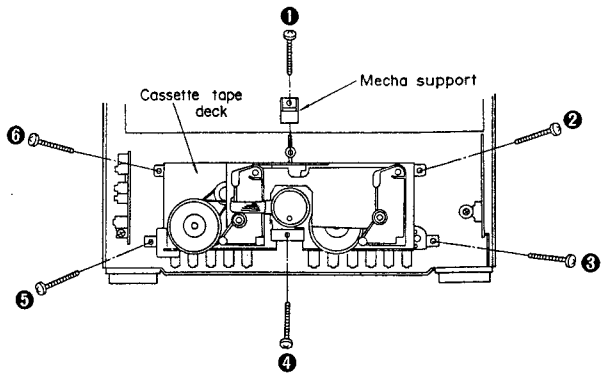


1. Unsolder the 4 terminals of the flat cable.
2. Remove the 4 screws (❶~❹).
3. Remove the 2 mecha P.C.B. support.

Ref. No. 16	Removal of the cassette tape deck (DECK 1, DECK 2)
Procedure 1→2→6→7 →13→14→ 15→16	

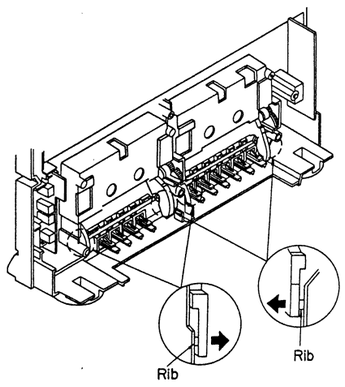


1. Push the stop/eject button and open the cassette holder.

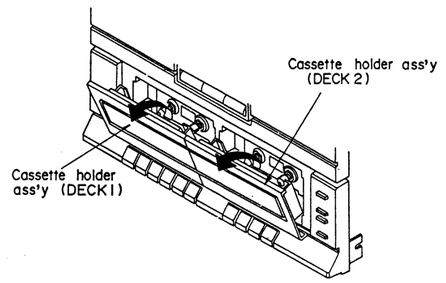


2. Remove the 6 screws (❶~❻).
3. Remove the mecha support.

Ref. No. 17	Removal of the cassette holder ass'y (DECK 1, DECK 2)
Procedure 1→2→6→7 →13→14→ 15→16→17	



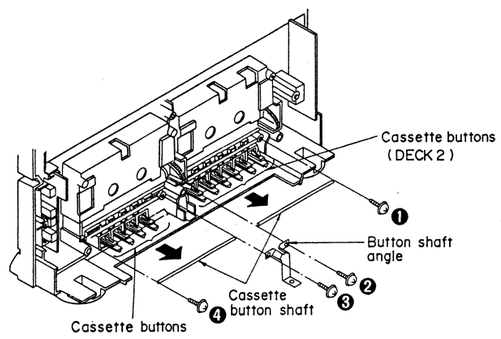
1. Remove the ribs in the direction of arrow.



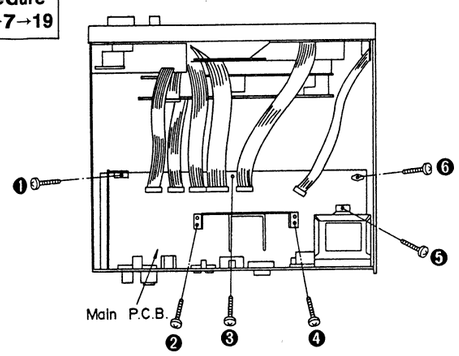
2. Pull out the cassette holder in the direction of arrow.

Ref. No. 18	Removal of the cassette buttons (DECK 1, DECK 2)
Procedure 1→2→6→7→ 13→14→15→ 16→17→18	

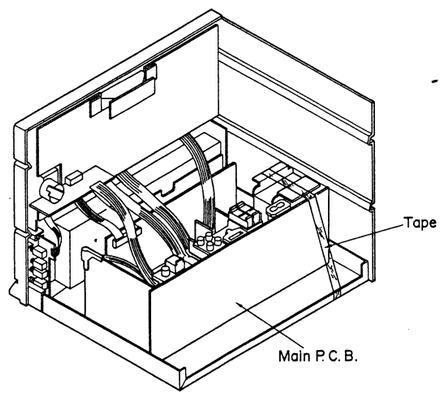
1. Remove the 4 screws (❶~❹).
2. Remove the cassette button shaft.
3. Remove the cassette buttons.



Ref. No. 19	Check of the main P.C.B.
Procedure 1→2→7→19	

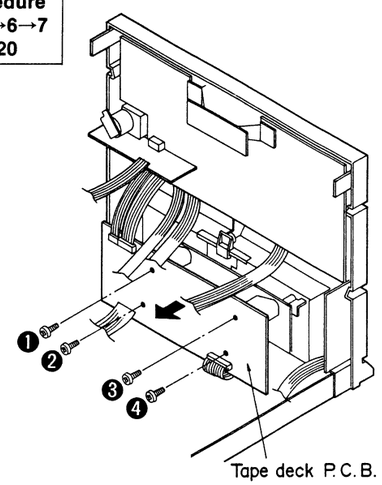


1. Remove the 6 screws (❶~❻).

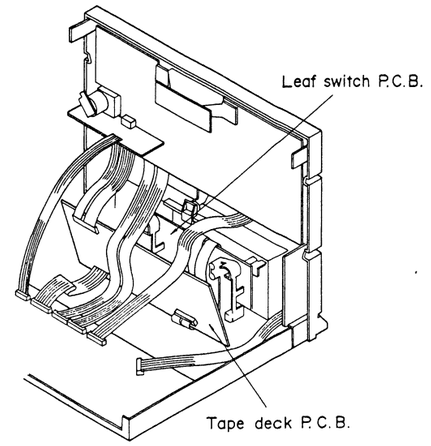


2. When checking the soldered surface of main P.C.B. and replacing the parts, do as shown.

Ref. No. 20	Check of the tape deck P.C.B. and leaf switch P.C.B.
Procedure 1→2→6→7 →20	



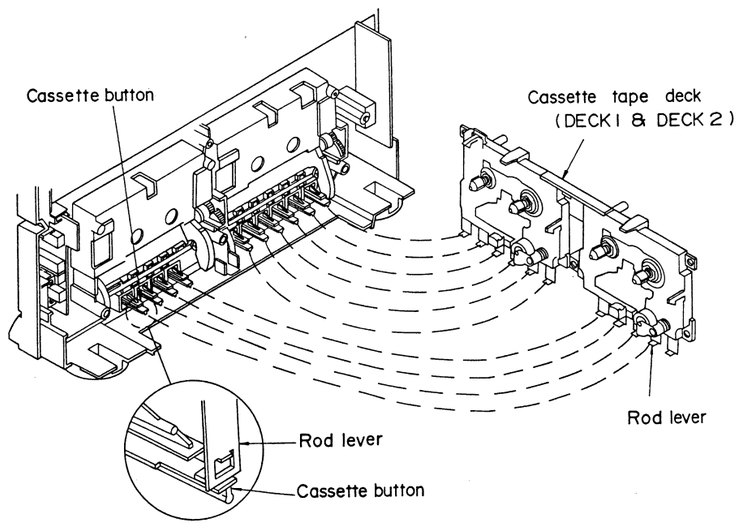
1. Remove the 4 screws (❶~❹).
2. Remove the tape deck P.C.B. in the direction of arrow.



3. When checking the soldered surface and replacing the parts, do as shown.

■ How to install the cassette tape deck

• Engage the rod lever in the cassette button.



■ MEASUREMENTS AND ADJUSTMENTS

•AM/FM TUNER SECTION

Note: For Z2 {AM (MW/LW) IFT} and Z1 {AM (MW/LW) ANT and OSC coil}, they are supplied as adjusted parts. So, do not turn the cores of the parts.

Control positions and equipment used

- FM signal generator (AM and FM-SG)
- Oscilloscope
- L.P.F.
- Coil
- Distortion analyzer
- Dummy antenna (75Ω unbalanced)
- AC and DC electronic voltmeter (EVM)
- Digital frequency counter
- Capacitor (50V 1μF)
- Resistor (330kΩ, 1kΩ, 1MΩ)
- Equalizer control..... Center
- Balance control..... Center

Measurement condition

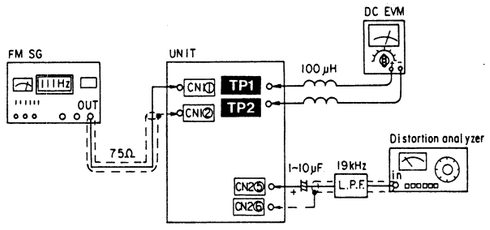
- Volume control..... Maximum

FM MONO DISTORTION ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Set the unit to "**FM**" mode.
3. Set the radio frequency display and signal generator to **100.10MHz**.
4. Adjust the core of **T3** so that the voltage measured in signal mode is **0mV (0±30mV)** in 300mV range.
5. Adjust **T4** so that the distortion factor of L-CH is minimized.
6. Repeat steps 4 and 5.
7. Make sure that the distortion factors of L-CH and R-CH are nearly the same and minimum.

Note: The adjusting screwdriver used should be made of resin.

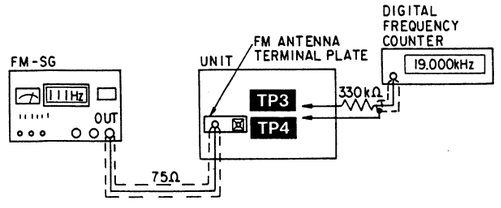
FM SIGNAL GENERATOR CONDITION
Modulation.....100%
Modulation frequency.....1kHz
Output level.....66dB



FM-STEREO ADJUSTMENT (FREE RUN)

1. Test equipment connection is shown in figure.
2. Place unit into "FM STEREO" position.
3. Place the radio dial and signal generator setting to 98MHz.
4. Adjust **VR1** for **19kHz±30Hz** on frequency counter reading.
5. Tune a stereo broadcast and confirm the frequency stays at 19kHz.

AM SIGNAL GENERATOR CONDITION
Modulation.....30%
Modulation frequency.....400Hz
Output level.....66dB



• CASSETTE DECK SECTION

MEASUREMENT CONDITION:

- Make sure heads are clean
- Make sure capstan and pressure roller are clean

TEST TAPE:

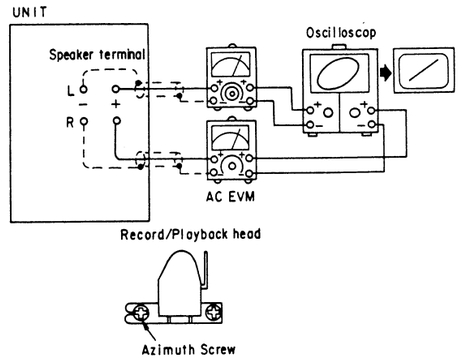
- Head azimuth adjustment (8kHz, −20dB): QZZCFM
- Tape speed adjustment (3kHz, −10dB): QZZCWAT
- Normal reference blank tape: QZZCRA
- CrO_2 reference blank tape: QZZCRX

HEAD AZIMUTH ADJUSTMENT (DECK 1, 2)

1. Playback the azimuth adjustment portion (8kHz, −20dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-CH and R-CH are maximized and the lissajous waveform, as illustrated, approaches 0 degress.

Note:
If L-CH and R-CH are not maximized at the same point, adjust to the point where the levels of each channel are maximized and equal.

2. Perform the same adjustment in the play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

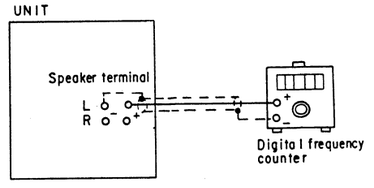


TAPE SPEED ADJUSTMENT (DECK 1, 2)

1. Test equipment connection is shown in figure.
2. Set the unit to "**TAPE**" position.
3. Playback the middle part of the test tape (QZZCWAT).
4. Adjust **VR951** so that the output is within the standard value. (DECK 1, 2)
5. Set the unit to "**HIGH**" position.
6. Place the cassette deck into the REC mode (DECK 1) and the PLAY mode (DECK 2).
7. Repeat step 4.

Note:
The Normal speed adjustment must be done before the High speed adjustment.

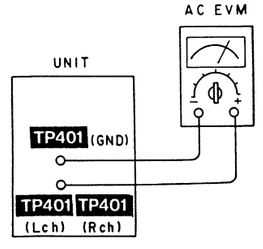
DECK 1 Standard value: 2920~3080Hz (Normal)
DECK 2 Standard value: 2970~3030Hz (Normal)



Standard value: 5100~5700Hz (High)

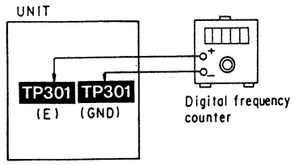
PLAYBACK GAIN ADJUSTMENT (DECK 1, 2)

1. Test equipment connection is shown in figure.
2. Playback test tape (QZZCFM).
3. Adjust **VR303, 304** (DECK 1) and **VR301, 302** (DECK 2) to read **390±10mV** on the AC Electronic Voltmeter. (AC EVM)



BIAS OSC FREQUENCY ADJUSTMENT (DECK 1)

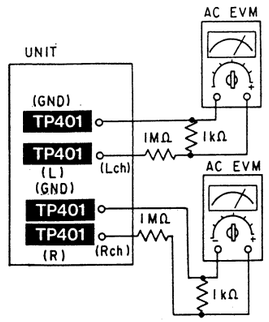
1. Test equipment connection is shown in figure.
2. Set the unit to "**TAPE**" position.
3. Place cassette deck into **REC** mode.
4. Adjust **L401** for **89±5kHz** on frequency counter reading.



RECORDING BIAS ADJUSTMENT (DECK 1)

1. Test equipment connection is shown in figure.
2. Insert the normal tape (QZZCRA).
3. Place cassette deck into **REC** mode.
4. Adjust **VR305** (Lch) and **VR306** (Rch) so that the output is within the standard value.

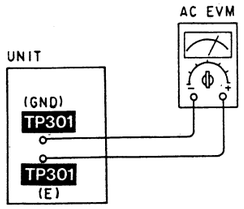
DECK 1 Standard value; 0.4V±0.5dB



ERASE CURRENT CHECK (DECK 1)

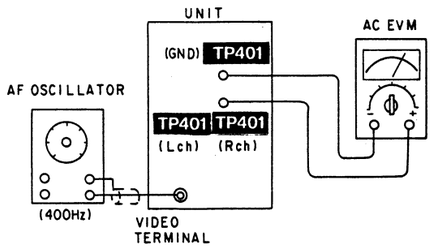
1. Test equipment connection is shown in figure.
2. Insert the normal tape (QZZCRA).
3. Place cassette deck into **REC** mode.
4. Make sure that the output is within the standard value.
5. Insert the CrO_2 tape (QZZCRX).
6. Repeat steps 3, 4.

DECK 1 Standard value (Normal): more than 50mV
DECK 1 Standard value (CrO_2): more than 70mV

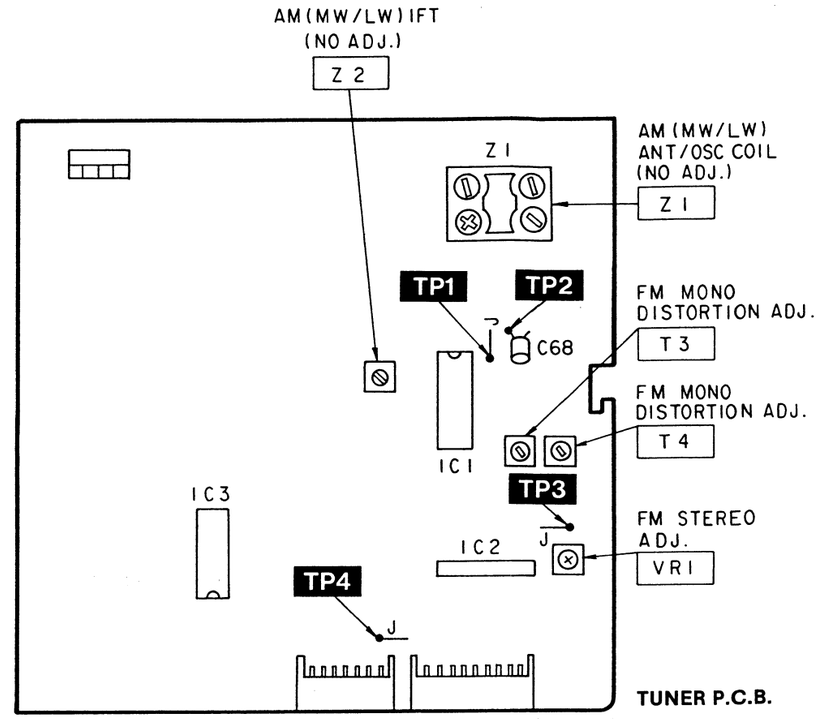


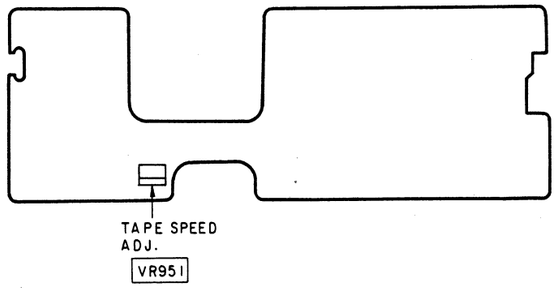
RECORDING CURRENT ADJUSTMENT (DECK 1)

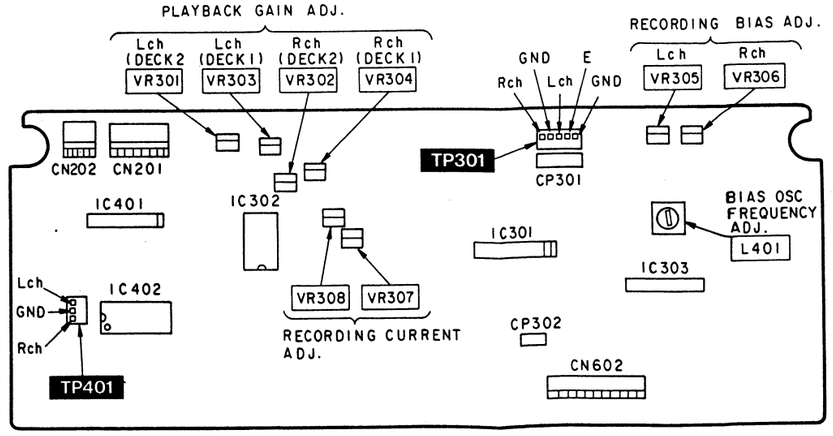
1. Test equipment connection is shown in figure.
2. Place the unit in the "**CD**" position and the cassette deck in the **STOP** mode.
3. Place the cassette deck into **REC** mode.
4. Feed an AF Oscillator signal (**400Hz**) into the **CD** terminal and adjust the input level to read **390±10mV** on the AC Electronic Voltmeter (AC EVM).
5. Place the cassette deck into the **REC** mode (QZZCRA) and the **PLAY** mode.
6. Adjust **VR307** (Lch) and **VR308** (Rch) to read **390±10mV** on the AC Electronic Voltmeter. (AC EVM)



• **Test points and adjustment points**







■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:
- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:
1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

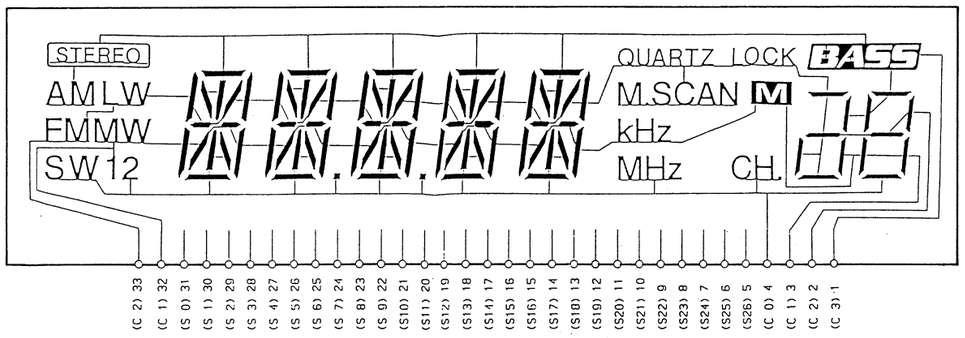
Note:
When the protection circutry functions, the unit will not operate unless the power is first turned off and then on again.

■ BEFORE REPAIR AND ADJUSTMENT

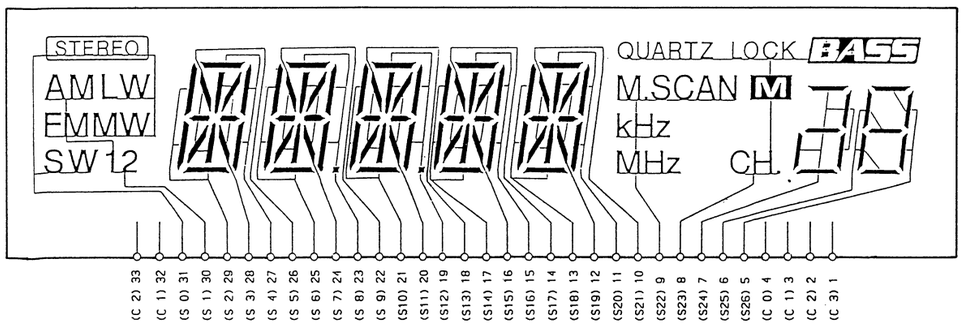
Disconnect AC power, Discharge both Power Supply Capacitors C805 through a 10Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may distroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 50Hz, 230~240V in NO SIGNAL mode should be 150±50mA.

■ INTERNAL CONNECTION OF LCD

• Common connection diagram



• Segament connection diagram



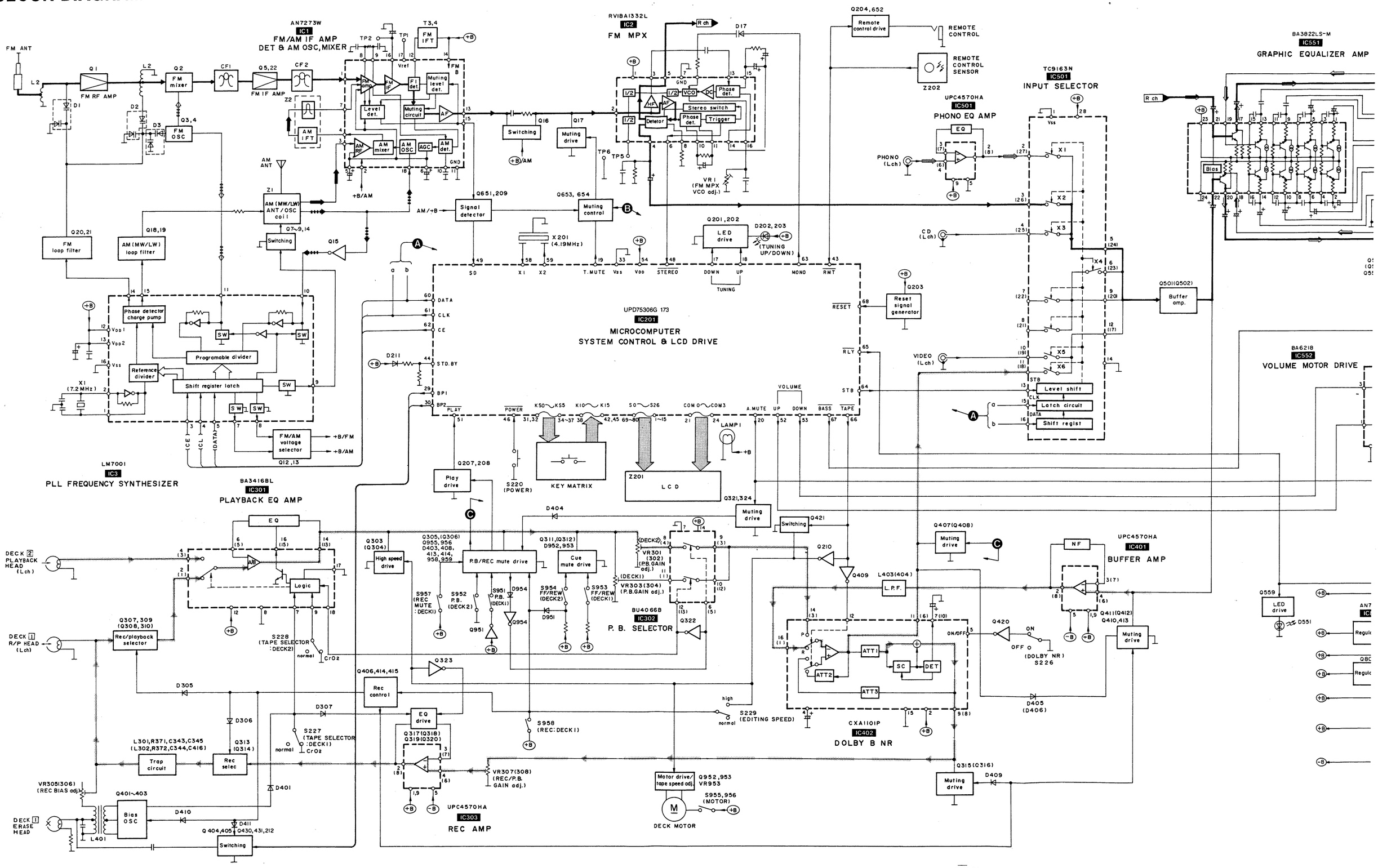
■ TERMINAL FUNCTION OF IC

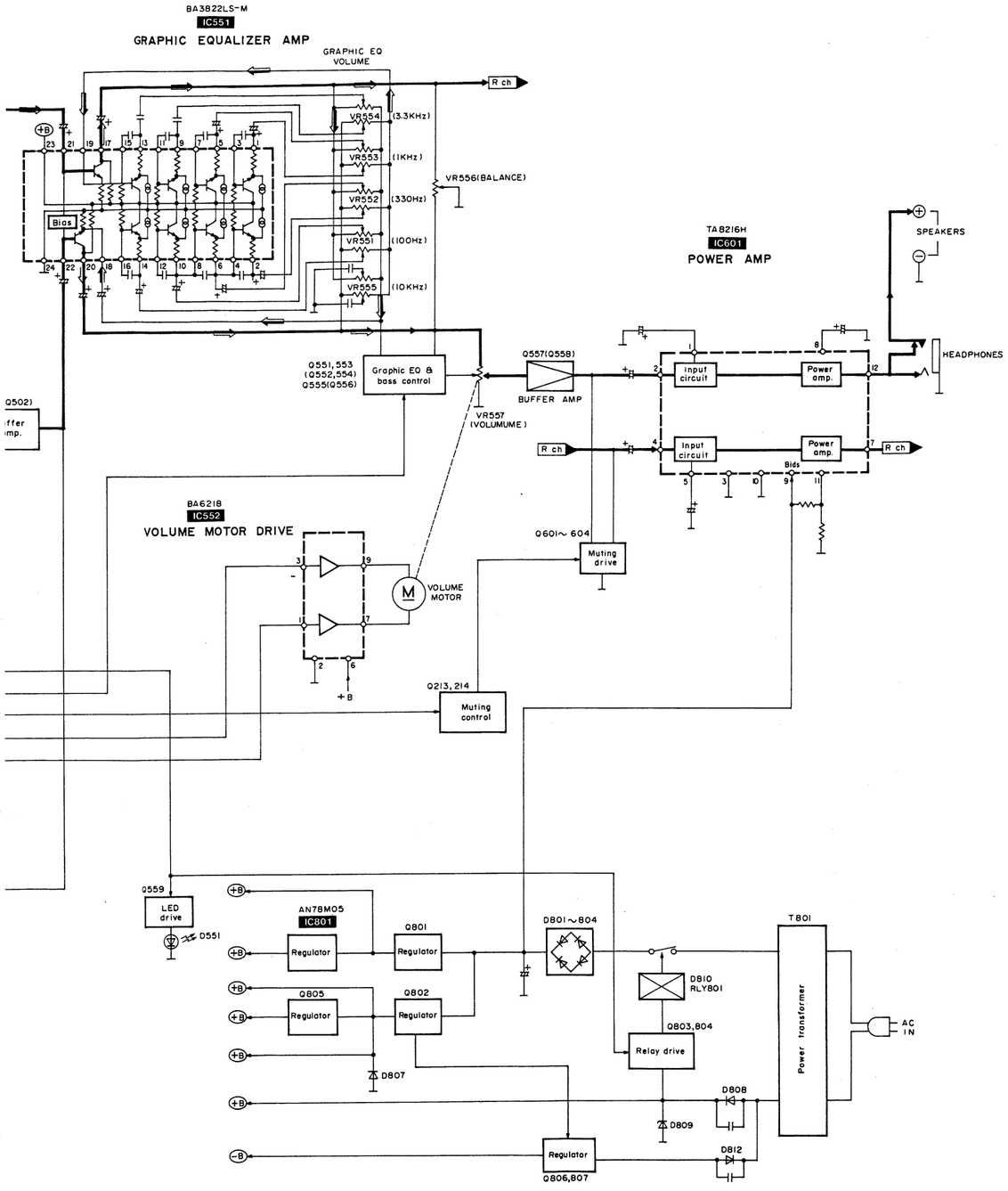
• IC201 (UPD75306G173): Microcomputer

Pin No.	Mark	I/O Division	Function
1 ⟆ 16	S12 ⟆ S27	O	Segment signal of LCD
17	BP4/DOWN	O	LED drive terminal of tuning up/down
18	BP5/UP		
19	BP6/ T. MUTE	O	Muting signal of tuner circuit
20	BP7/ A. MUTE	O	Muting signal of amp circuit
21 ⟆ 24	COM0 ⟆ COM3	O	Common signal of LCD
25	BIAS	O	Power supply bias control of LCD
26 ⟆ 28	VLC0 ⟆ VLC2	–	Power supply of LCD
29	P40/BP1	O	Beet proof control signal
30	P41/BP2		
31 • 32	P42/KS0 • P43/KS1	O	Key scan signal
33	VSS	–	GND terminal
34 ⟆ 37	P50/KS2 ⟆ P53/KS5	O	Key scan signal
38 ⟆ 41 • 42	P00/KI0 ⟆ P03/KI3 • P10/KI4	I	Key return signal
43	INT1/$\overline{\text{RMT}}$	I	Remote control input terminal
44	P12/STD BY	I	Power standby input terminal
45	P13/KI5	I	Key return signal
46	P20/ $\overline{\text{POWER}}$	I	Power on/off det. terminal

Pin No.	Mark	I/O Division	Function
47	P21/$\overline{\text{VI}}$/AUX	–	Not used, connected to GND
48	P22/ $\overline{\text{STEREO}}$	I	Stereo signal det. terminal
49	P23/SD	I	Signal received det. terminal
50	P30/$\overline{\text{REC}}$	–	Not used, connected to power supply
51	P31/$\overline{\text{PLAY}}$	O	Rec muting drive of deck circuit
52	P32/ VOL • UP	O	Volume control output terminal
53	P33/VOL • DOWN		
54	VDD	I	Power supply terminal
55	XT1	I	Sub-system clock OSC terminal
56	XT2		
57	NC	–	Non connection
58	X1	I	Main-system clock OSC terminal
59	X2		
60	P60/DATA	O	Serial data signal
61	P61/CLK	O	Serial clock signal
62	P62/CE	O	Chip enable terminal
63	P63/MONO	O	Forcible monaural control terminal
64	P70/STB	O	Level shift control terminal
65	P71/$\overline{\text{RLY}}$	O	Relay drive terminal
66	P72/$\overline{\text{TAPE}}$	O	Deck P.B./REC select signal
67	P73/$\overline{\text{BASS}}$	O	Supper bass control terminal
68	$\overline{\text{RESET}}$	O	Reset control terminal
69 ⟆ 80	S0 ⟆ S11	O	Segment signal of LCD

■ BLOCK DIAGRAM

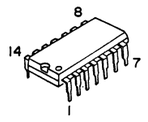
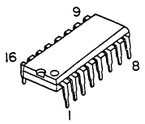
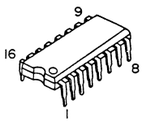
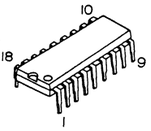
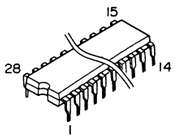
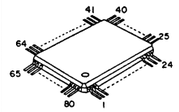
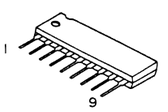
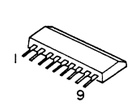
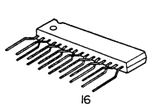
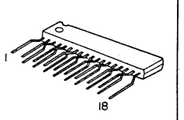
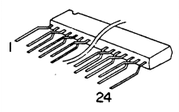
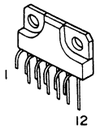
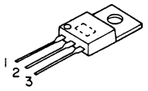
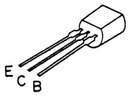
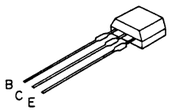
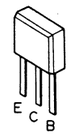
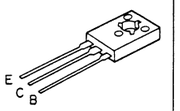
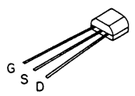
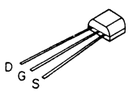
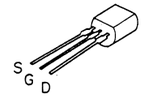
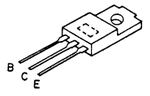
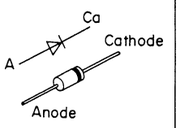
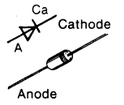
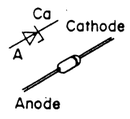
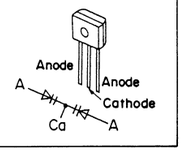
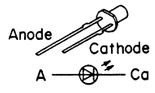




Note:

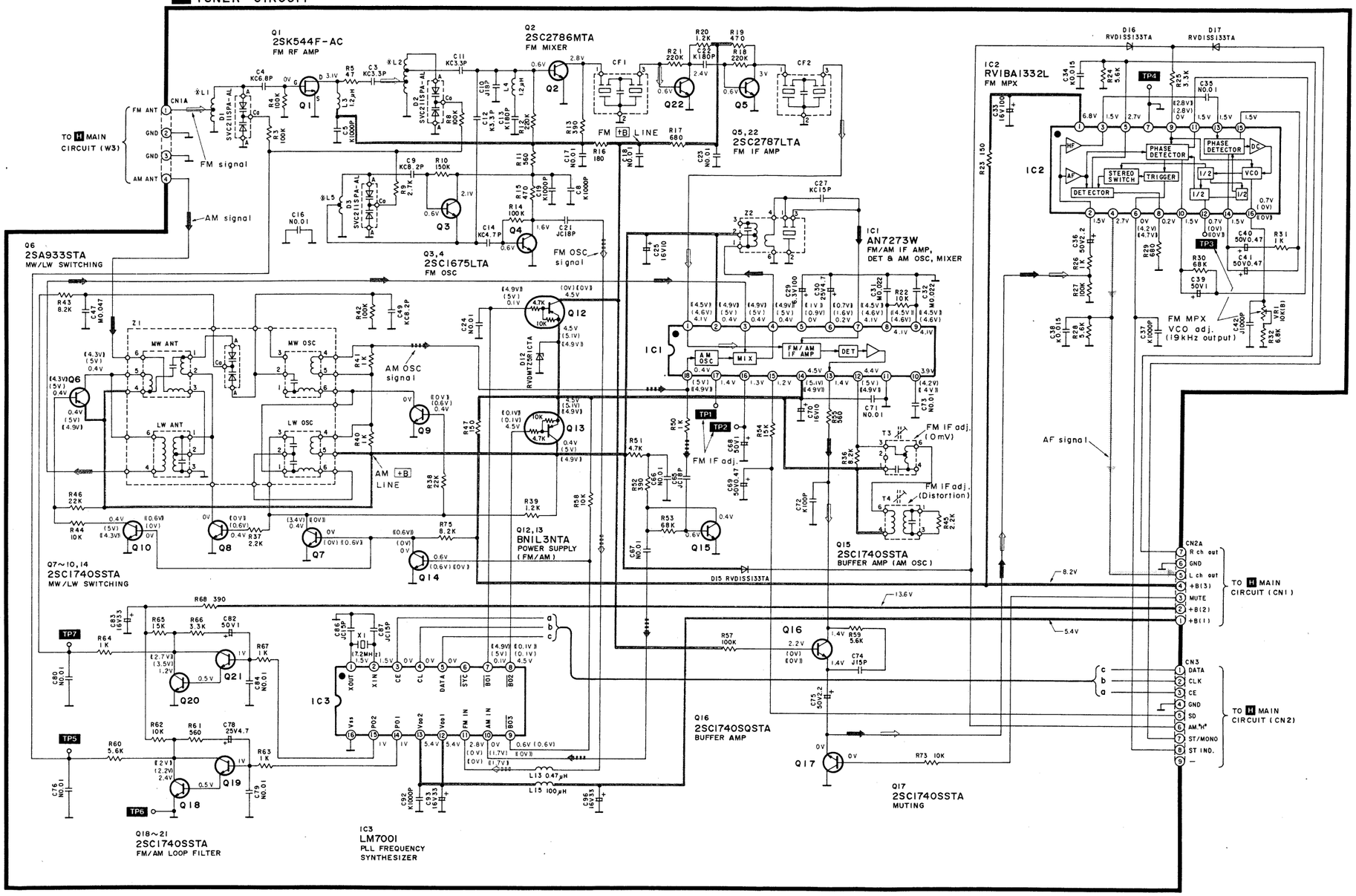
- FM Signal
- AM (MW/LW) Signal
- Playback Signal
- FM OSC Signal
- AM (MW/LW) OSC Signal
- Recording Signal
- Graphic EQ Signal
- Phono Signal

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

BU4066B 	CXA1101P 	LM7001 	AN7273W 	TC9163N 
UPD75306G173 	BA6218 	UPC4570HA 	RVIBA1332L 	BA3416BL 
BA3822LS-M 	TA8216H 	AN78M05 		2SB621RTA 2SC1675LTA 2SC2001KTA 2SD592STA
	2SA933STA 2SC1740SSTA 2SC1740SRTA RVTDTA114EST RVTDTC114EST RVTDTC124EST RVTDTA144EST RVTDTC144EST			BN1L3NTA 2SC2786MTA 2SC2787LTA 2SC3311RTA
				2SA885R 
2SK544F-AC 	2SJ40CDTA 2SK381CDTA 	2SK301QTA 	2SD1273P 	1N5402BM21 
	MA165TA MA700TA RVD1SR35TR RVD1SS133TA			RVDMTZ5R1CTA RVDMTZ5R6BTA RVDMTZ5R6CTA RVDMTZ6R8BTA RVDMTZ9R1BTA RVDMTZ12CTA RVDMTZ15CTA
				SVC211SPA-AL 
SLR33VC70F08 				

A TUNER CIRCUIT

D OPERATION CIRCUIT



10 11 12 13 14 15 16 17 18 19

N CIRCUIT

F LAMP CIRCUIT

Z201 (RSL5042-L)
LCD DISPLAY

IC201
UPD75306GI73
SYSTEM CONTROL
a LCD DRIVE

Q213
2SA933STA
MUTING CONT.

Q211,212
2SC1740SSTA
SWITCHING
(BEAT PROOF)

Q214
2SC1740SSTA
MUTING CONT.

Q203
2SC1740SSTA
RESET

Q559
2SC1740SSTA
LED DRIVE

Q210
RVTDTC114EST
SWITCHING

Q204
RVTDTA144EST
SWITCHING (REMOTE)

Q209
2SA933STA
SIGNAL DET.

Q201,202
2SC1740SSTA
LED DRIVE

LAMP1

To B TAPE DECK CIRCUIT (CN201)

W201 TAPE "L" / A.MUTE / PLAY "L" / REC "H" / H.SP / GND / BP1 / BP2

W206

D202,203
SLR33VC70FO8

D206 MA700TA

D207 MA165TA

D208 SLR335CT0F08 (POWER)

X201 (4.19MHz)

Z202
RCDGP1U509X
(REMOTE SENSOR)

W551
8 NC
7 L ch IN
6 GND
5 R ch IN
4 +B (2)
3 +B (7)
2 GND
1 GND
→ To H MAIN CIRCUIT (CN551)

W203
5 +B (5)
6 ST/MONO
7 DATA
6 CLK
5 CE
4 STB
3 RLY
2 GND
1 +B (4)
→ To H MAIN CIRCUIT (CN203)

W204
1 GND
2 A.MUTE
3 T.MUTE
4 SD
5 ST IND.
6 REMOTE
7 BP2
→ To H MAIN CIRCUIT (CN204)

W202
1 T.SEL 2
2 T.SEL 1
3 DOLBY
4 GND
→ To B TAPE DECK CIRCUIT (CN202)

S201 (1) S202 (2) S203 (3) S204 (4) S225 (PHONO) S224 (TUNER)
S205 (5) S206 (6) S207 (7) S208 (8) S222 (CD) S223 (TAPE)
S209 (9) S210 (0) S212 (MEMORY) S211 (M.SCAN) S221 (AUX)
S217 (FM) S219 (MW) S218 (LW) S214 (SUPER BASS)
S215 (TUN.DOWN) S216 (TUN.UP) S213 (FM MODE/BP)

S229 (EDITING SPEED)
S228 (DECK 2) normal → CrO2
S227 (DECK 1) normal → CrO2
S226 (DOLBY NR) off ↔ on
(TAPE)
W205

E DOLBY NR/TAPE/ EDITING SPEED CIRCUIT

IC551
BA3822LS-M
G.EQUALIZER AMP

(100Hz) (330Hz) (1KHz) (3.3KHz) (10KHz)

(BALANCE) VR556 (100K(G))

Q551 Q552 Q553 Q554
2SJ40CDTA
SUPER BASS AMP

Q551,552
2SC1740SSTA
SUPER BASS AMP

CN552 / CP552

Q557 Q558
2SC1740SSTA
BUFFER AMP

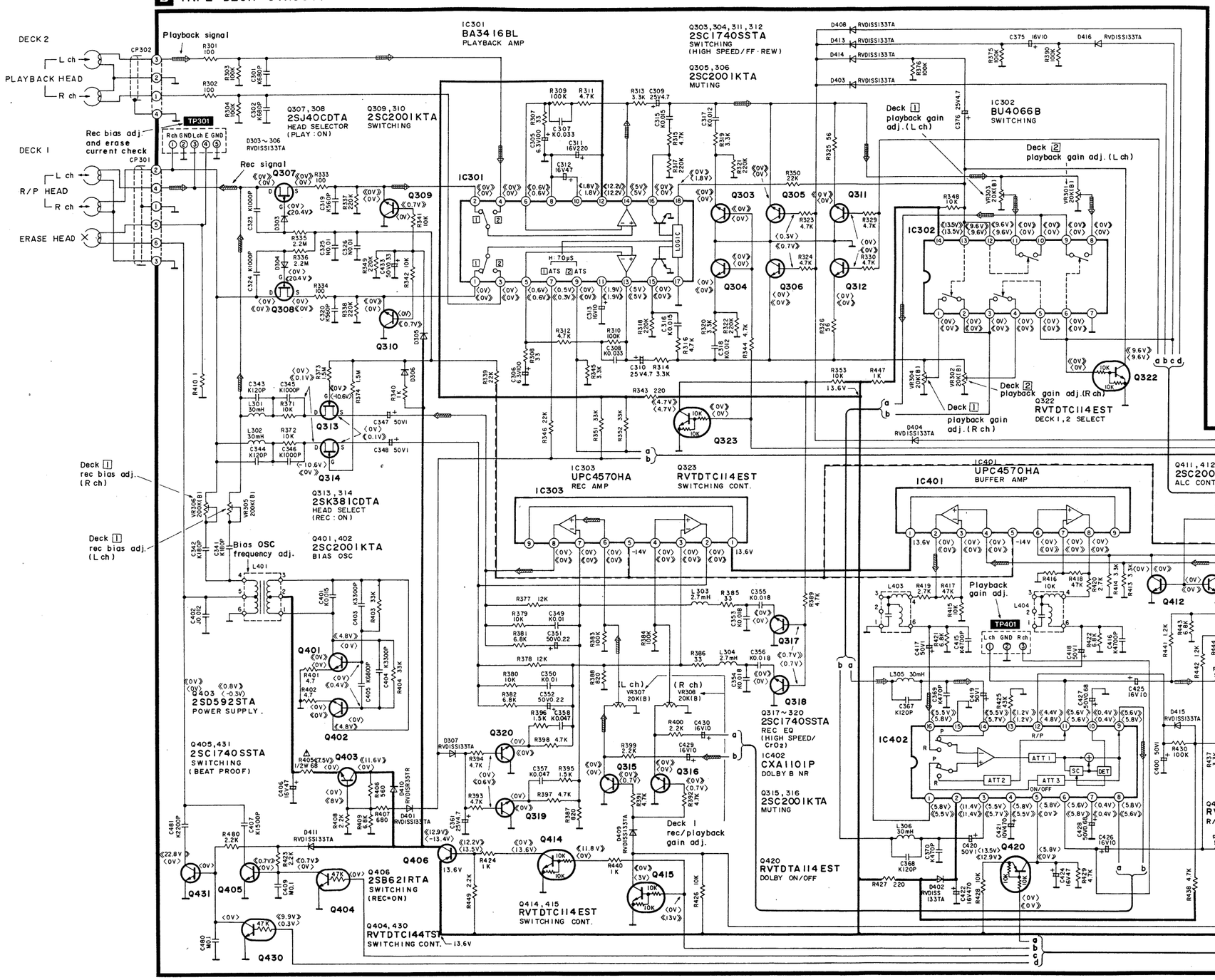
IC552
BA6218
MOTOR DRIVE
(VOLUME)
DIRECTION SELECTOR
DRIVE

W553
6 +B (2)
5 L ch OUT
4 GND
3 R ch OUT
2 +B (6)
1 GND
→ To H MAIN CIRCUIT (CN553)

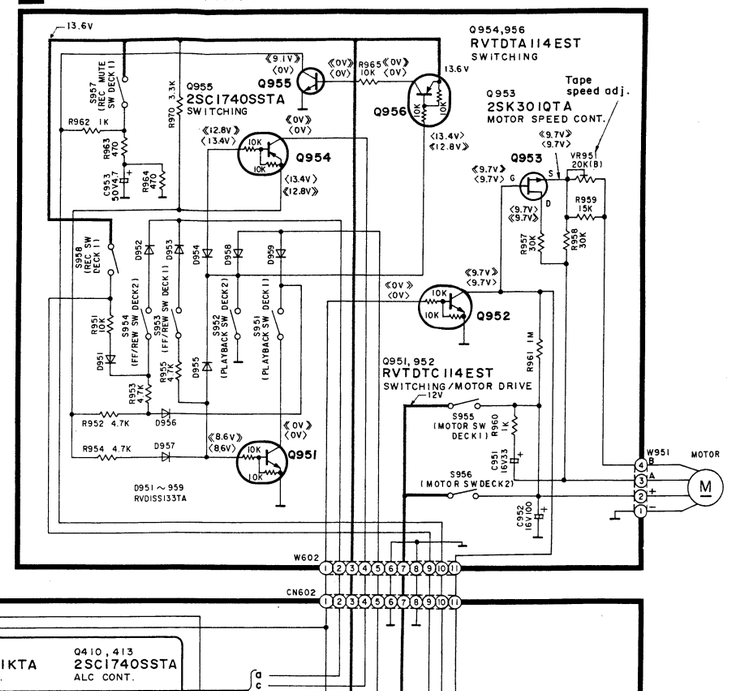
MOTOR (For VOLUME)

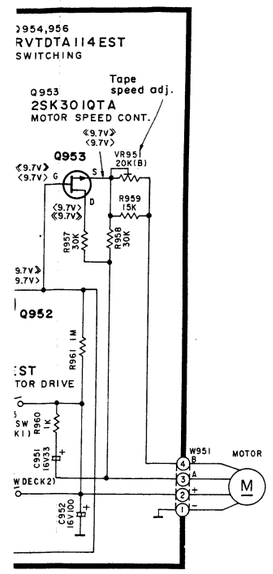
G VOLUME CIRCUIT

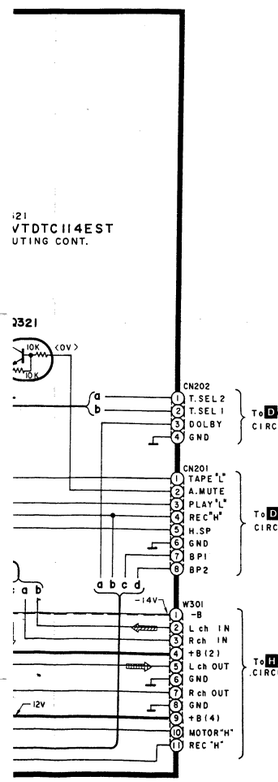
B TAPE DECK CIRCUIT

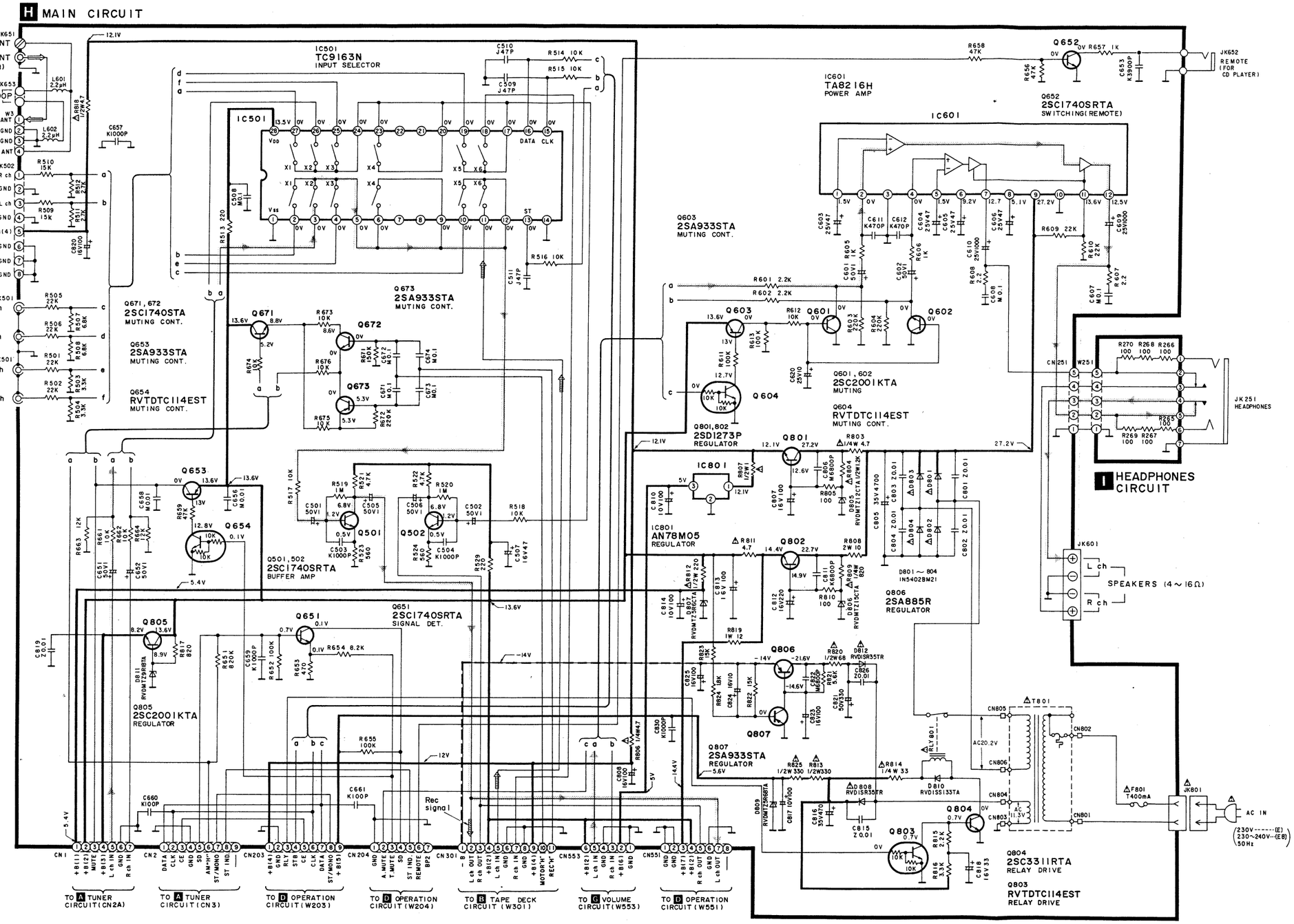


C LEAF SWITCH CIRCUIT









SCHEM

(Parts list o

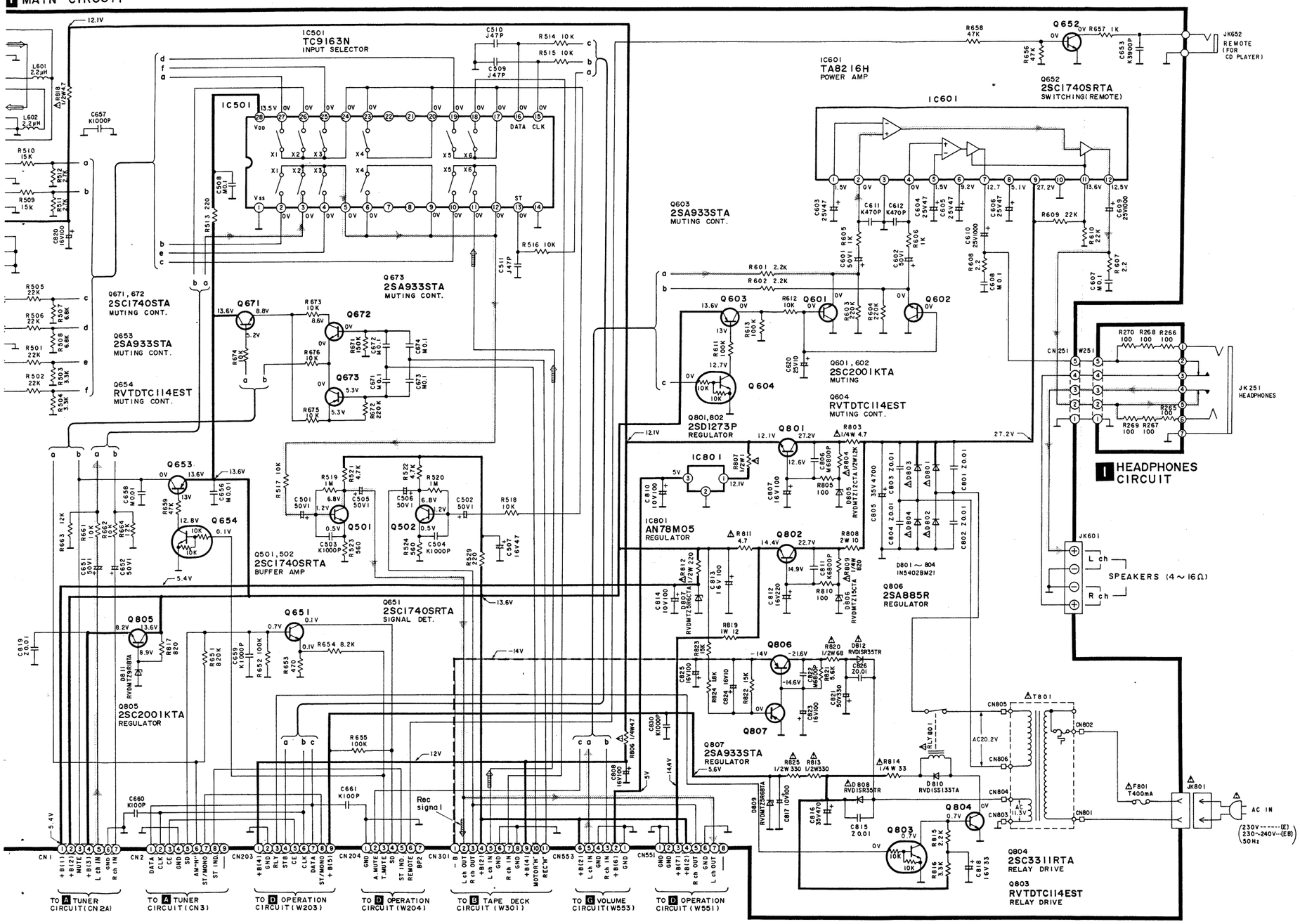
(This schematic d
development of r

Notes:

- **S201~210**: Pre
  [S
  [S
- **S211** : Mei
- **S212** : Mei
- **S213** : FM
  (FM
- **S214** : Sup
- **S215, 216** : Tur
  [S2
- **S217~219**: Bar
  [S2
- **S220** : Pov
- **S221~225**: Inp
  [S
  [S
- **S226** : Dol
  "OF
- **S227, 228** : Tap
  pos
  [S2
- **S229** : Tap
  SPE
- **S951** : DEC
- **S952** : DEC
- **S953** : DEC
- **S954** : DEC
- **S955** : DEC
- **S956** : DEC
- **S957** : DEC
- **S958** : Rec
- Indicated voltag
  measured by th
  impedance) with
  there may exist
  on the internal
  * All voltage val
    signal (monau
  * Figure in P
    reception mod
  * Figure in F
    reception.
  * Figure in <
    mode.
  * Figure in <<
    mode.
  * Figure in
  * ——— Posit
    - - - - Nega
    ■■■▶ AM (I
    ⇨ FM s
    ▒▒▒ AF si
- Important safet
  Components ide
  characteristics
  When replacing
  manufacturer's

* **Caution!**
  IC and LSI are s
  Secondary trout
  repair.
  * Cover the part
  * Ground the so
  * Put a conducti
  * Do not touch t

J MAIN CIRCUIT



I HEADPHONES CIRCUIT

■ SCHEMATIC DIAGRAM

(Parts list on pages 50~55.)

(This schematic diagram may be modified at any time with the development of new technology.)

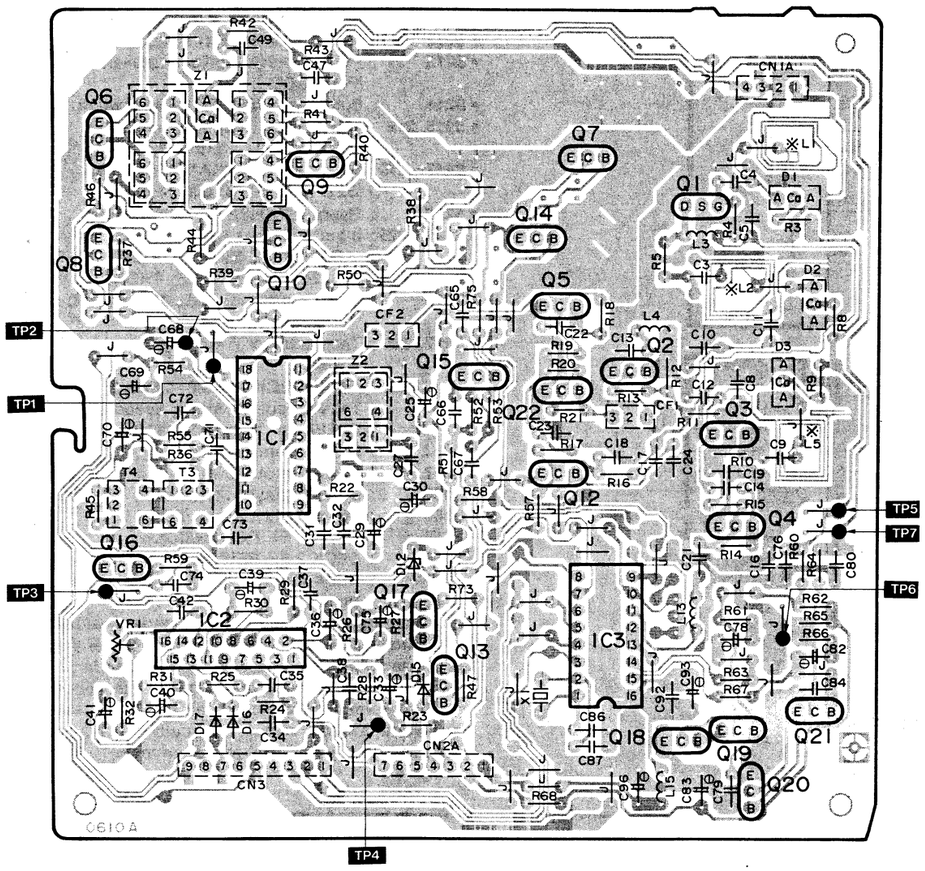
Notes:

- **S201~210**: Preset-tuning (1−0) switches.
  [S201: 1, S202: 2, S203: 3, S204: 4, S205: 5,
  S206: 6, S207: 7, S208: 8, S209: 9, S210: 0]
- **S211** : Memory scan (MEMORY SCAN) switch.
- **S212** : Memory (MEMORY) switch.
- **S213** : FM mode selector/beat prevention (FM MODE/B•P) switch.
- **S214** : Super bass (SUPER BASS) switch.
- **S215, 216** : Tuning (TUNING) switches. [S215: DOWN, S216: UP]
- **S217~219**: Band selectors (BAND) switches. [S217: FM, S218: LW, S219: MW]
- **S220** : Power (STANDBY ⏻ /ON) switch.
- **S221~225**: Input selectors (INPUT SELECTOR) switches.
  [S221: AUX, S222: CD, S223: TAPE,
  S224: TUNER, S225: PHONO]
- **S226** : Dolby noise-reduction (DOLBY NR) switch in "OFF" position.
- **S227, 228** : Tape selector (TAPE) switches in "NORMAL" position. [S227: DECK 1, S228: DECK 2]
- **S229** : Tape-to-tape recording speed selector (EDITING SPEED) in "normal" position.
- **S951** : DECK 1 motor switch.
- **S952** : DECK 2 motor switch.
- **S953** : DECK 1 playback switch.
- **S954** : DECK 2 playback switch.
- **S955** : DECK 1 FF/REW switch.
- **S956** : DECK 2 FF/REW switch.
- **S957** : DECK 1 rec switch.
- **S958** : Rec mute switch.
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- ＊All voltage values shown in circuitry are DC voltage in FM signal (monaural signal) reception mode.
- ＊Figure in ⌜ ⌟ Stand for DC-voltage in MW signal reception mode.
- ＊Figure in ⌜ ⌟ Stand for DC-voltage in LW signal reception.
- ＊Figure in < > Stand for DC-voltage in playback signal mode.
- ＊Figure in << >> Stand for DC-voltage in REC signal mode.
- ＊Figure in ▭ Stand for DC-voltage in muting mode.
- ＊——— Positive voltage lines
  – – – Negative voltage lines
  ■■■■▶ AM (MW/LW) OSC signal
  ▭▭▭▷ FM signal
  ▨▨▨▨ AF signal
  ▬▬▬▶ AM (MW/LW) signal
  ▭▭▭▷ FM OSC signal
  ▭▭▭▷ REC signal
  ▭▭▭▷ Playback signal
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  When replacing any of these components use only manufacturer's specified parts.

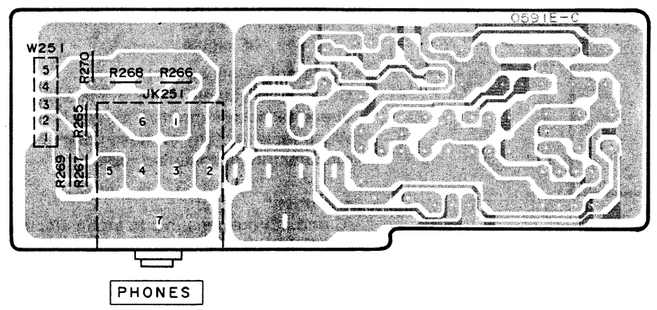
＊**Caution!**
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
＊Cover the parts boxes made of plastics with aluminum foil.
＊Ground the soldering iron.
＊Put a conductive mat on the work table.
＊Do not touch the legs of IC or LSI with the fingers directly.

■PRINTED CIRCUIT BOARDS

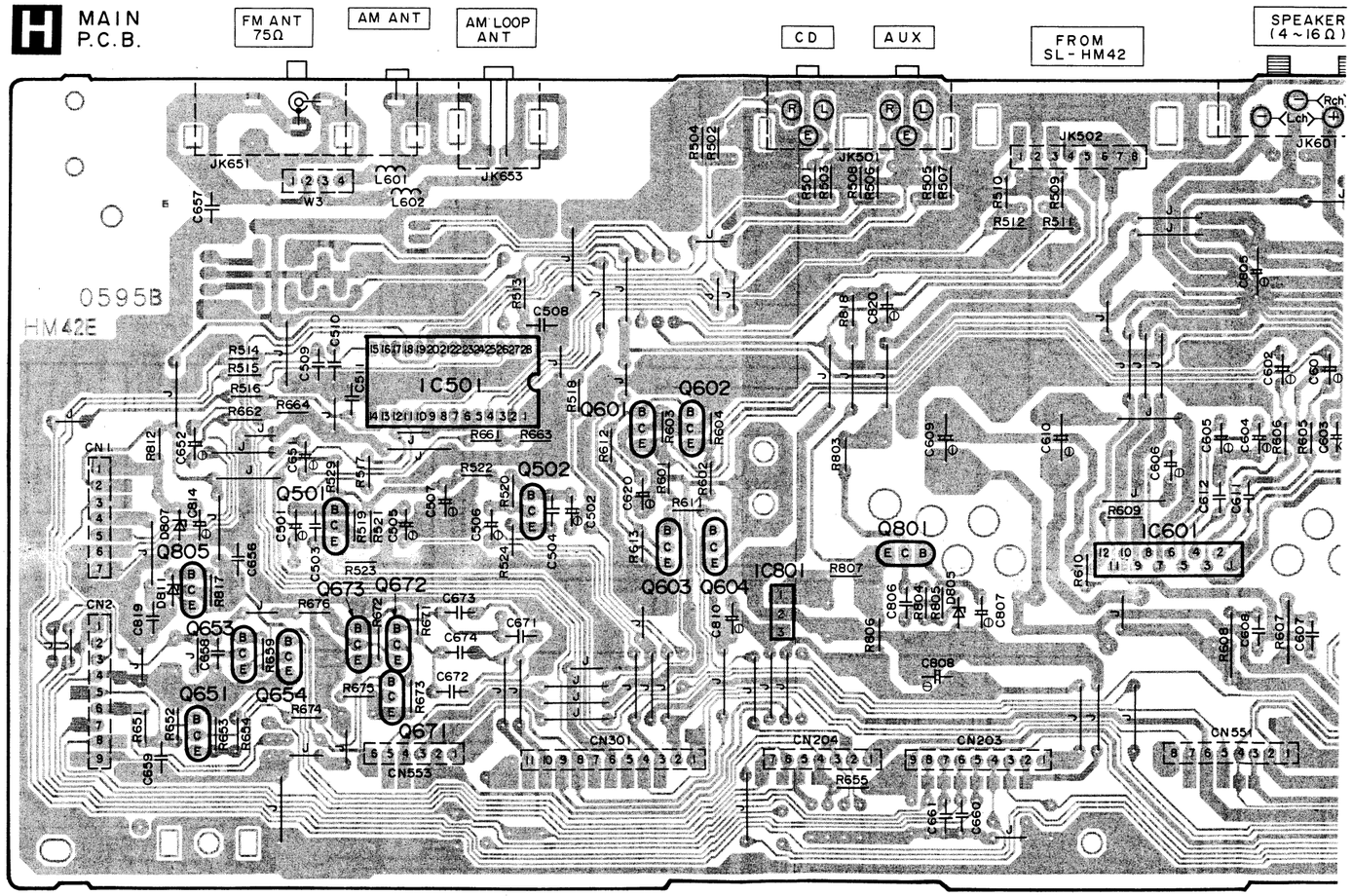
A TUNER P.C.B.

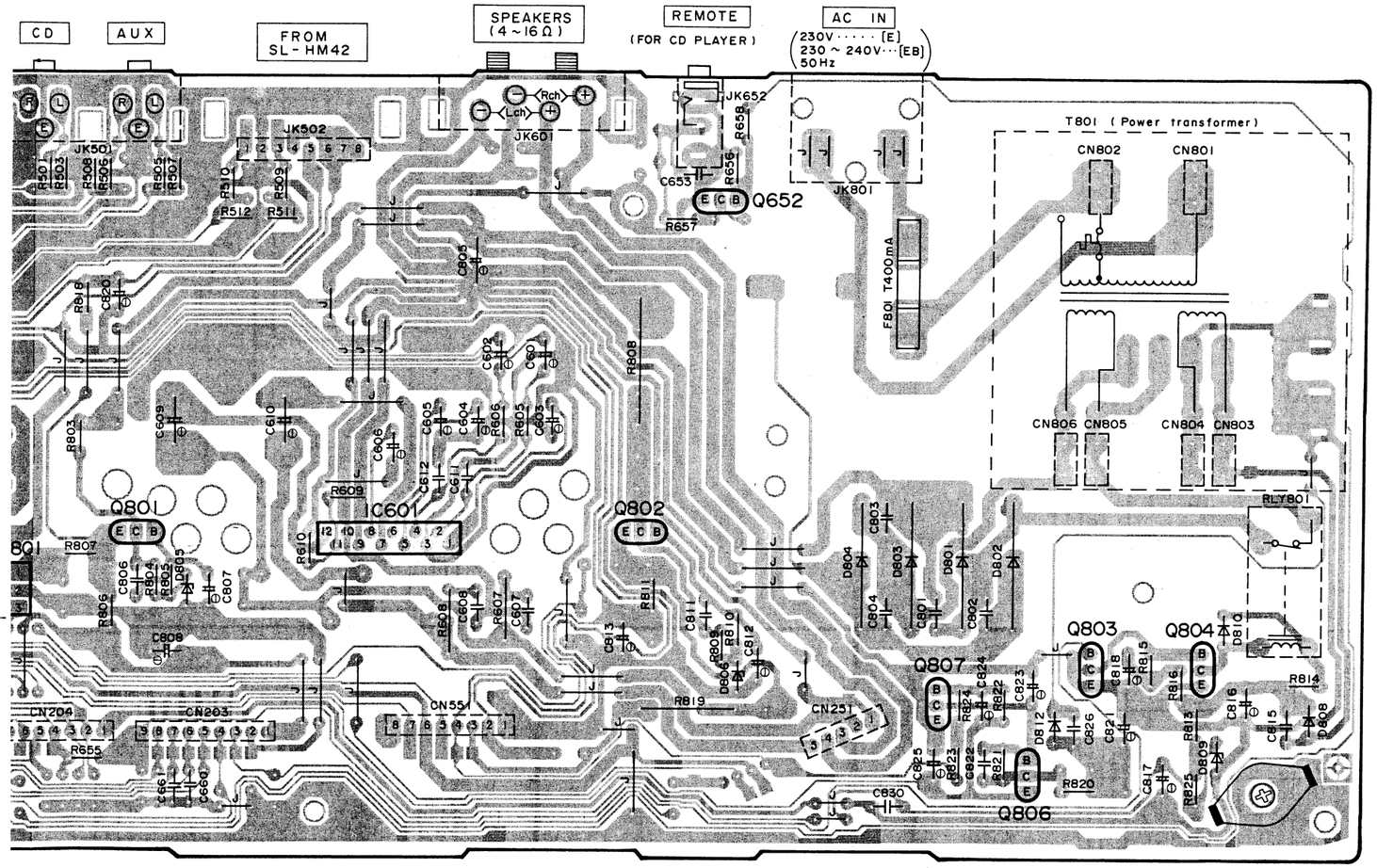


I HEADPHONES P.C.B.

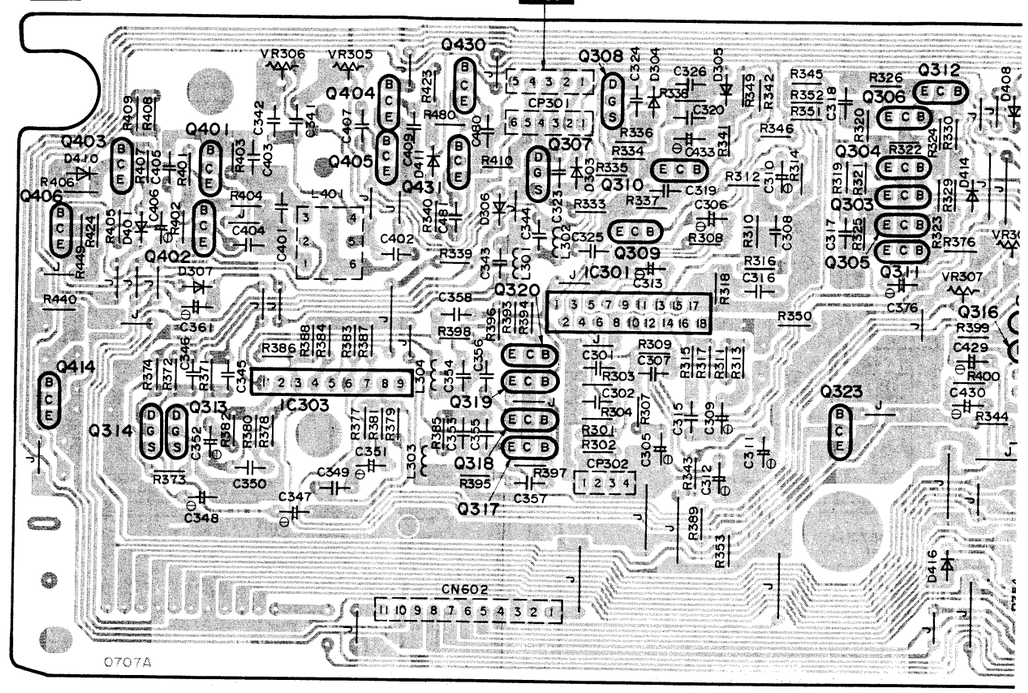


H MAIN P.C.B.

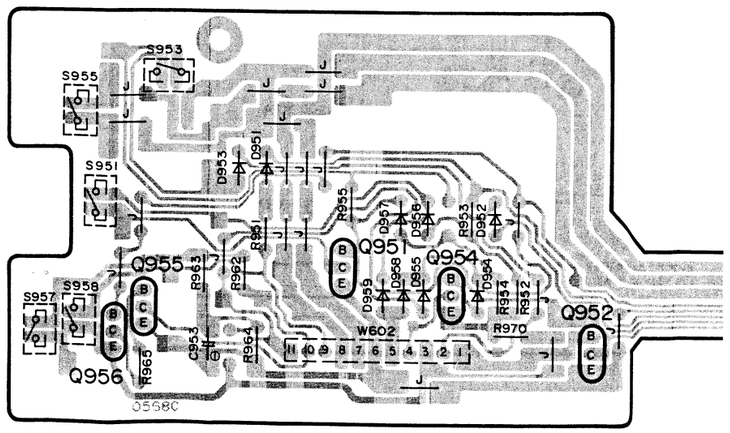




B TAPE DECK P.C.B.



C LEAF SWITCH P.C.B.



12 13 14 15 16 17 18 19 20 21

AC IN
230V ····· [E]
230 ~ 240V ··· [EB]
50Hz

T801 (Power transformer)

CN802 CN801 CN806 CN805 CN804 CN803

JK801 F801 T400mA RLY801 CN251 Q652 Q806 Q807 Q803 Q804

B TAPE DECK P.C.B.

Rec bias adj. and erase current check point.

TP301

CP301 CP302 IC301 IC302 IC303 IC401 IC402 CN201 CN202 CN602 W301 W602 L401 L403 L404 L305 Q301 Q302 Q303 Q304 Q305 Q306 Q307 Q308 Q309 Q310 Q311 Q312 Q313 Q314 Q315 Q316 Q317 Q318 Q319 Q320 Q321 Q322 Q323 Q324 Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409 Q410 Q411 Q412 Q413 Q414 Q415 Q420 Q421 Q431

0707A

TP401

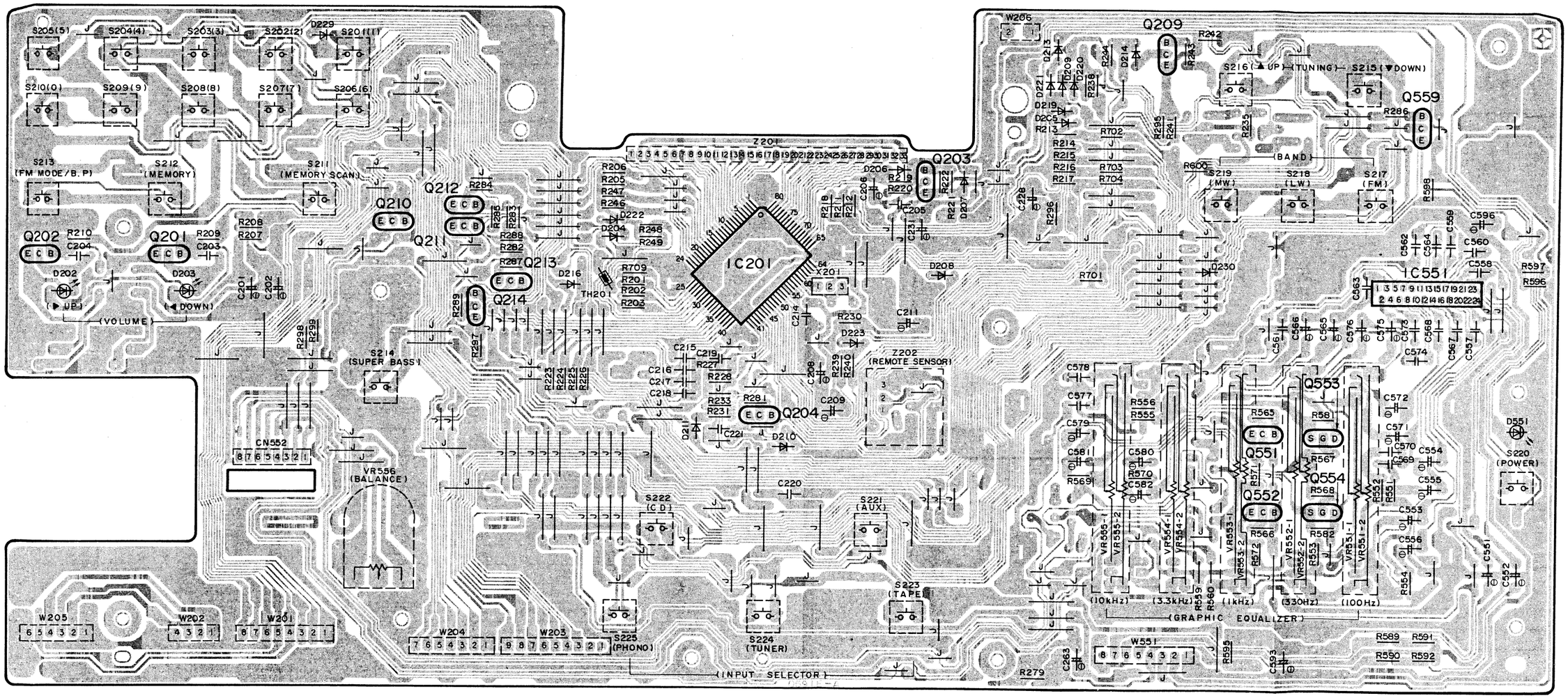
Playback gain adj.

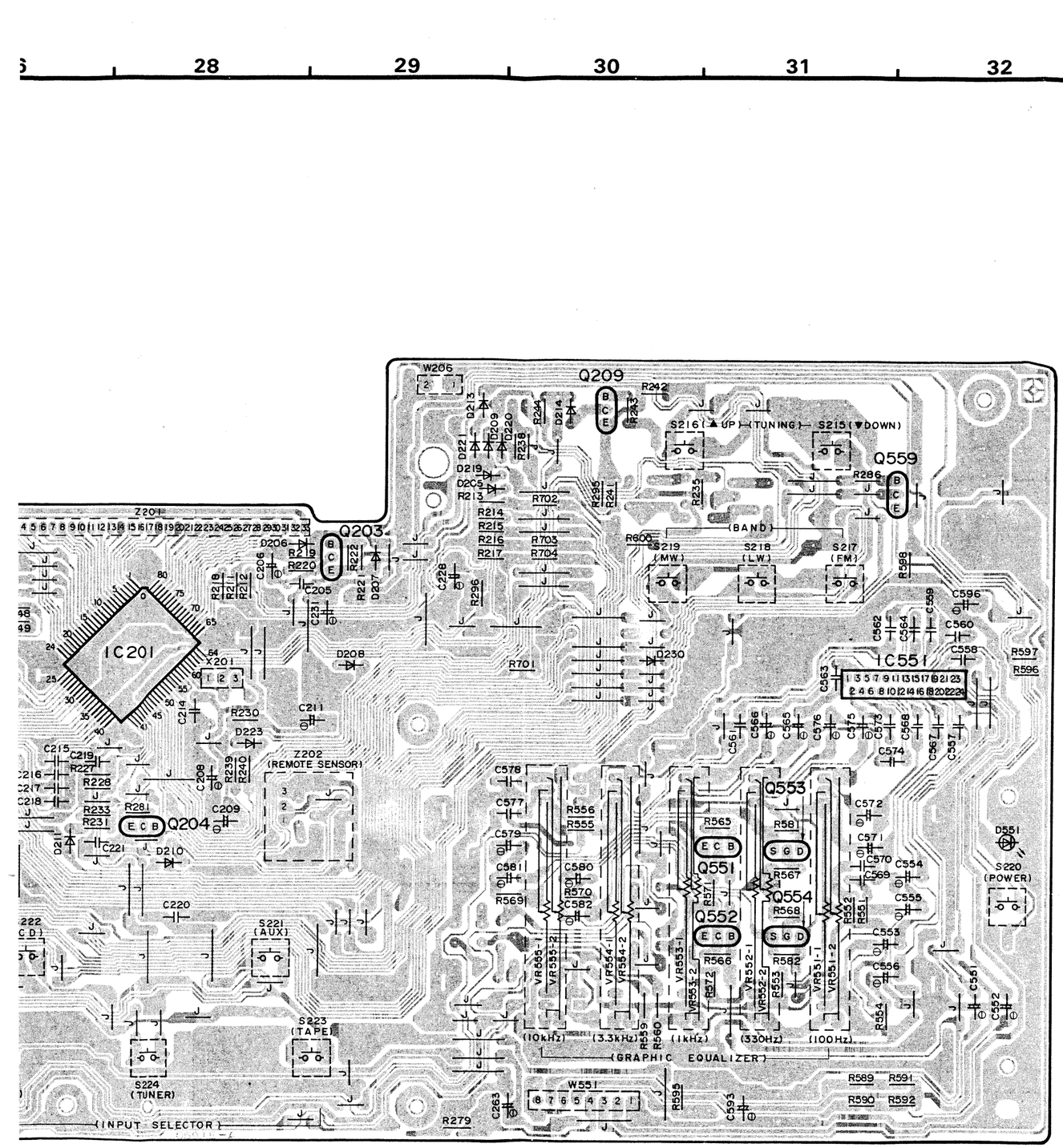
C LEAF SWITCH P.C.B.

S951 S952 S953 S954 S955 S956 S957 S958 W951 W802 Q951 Q952 Q953 Q954 Q955 Q956 VR951

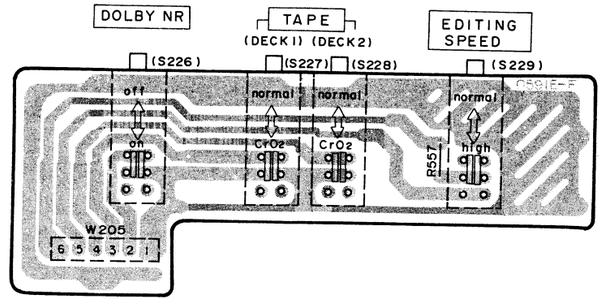
0536C

D OPERATION P.C.B.

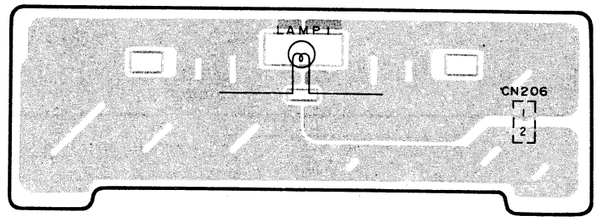




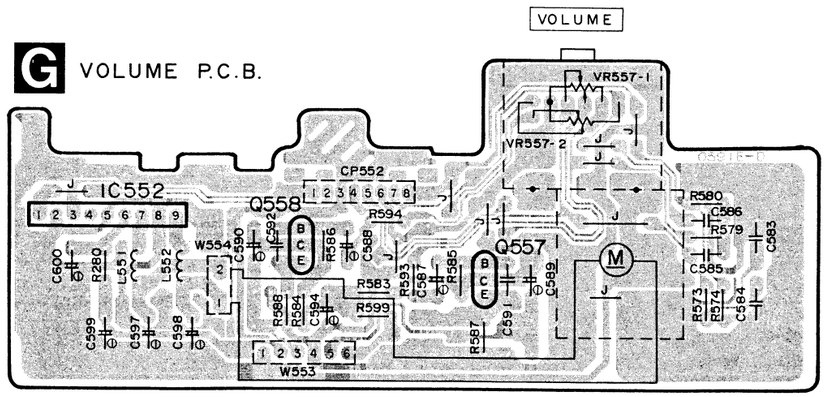
E DOLBY NR / TAPE / EDITING SPEED P.C.B.



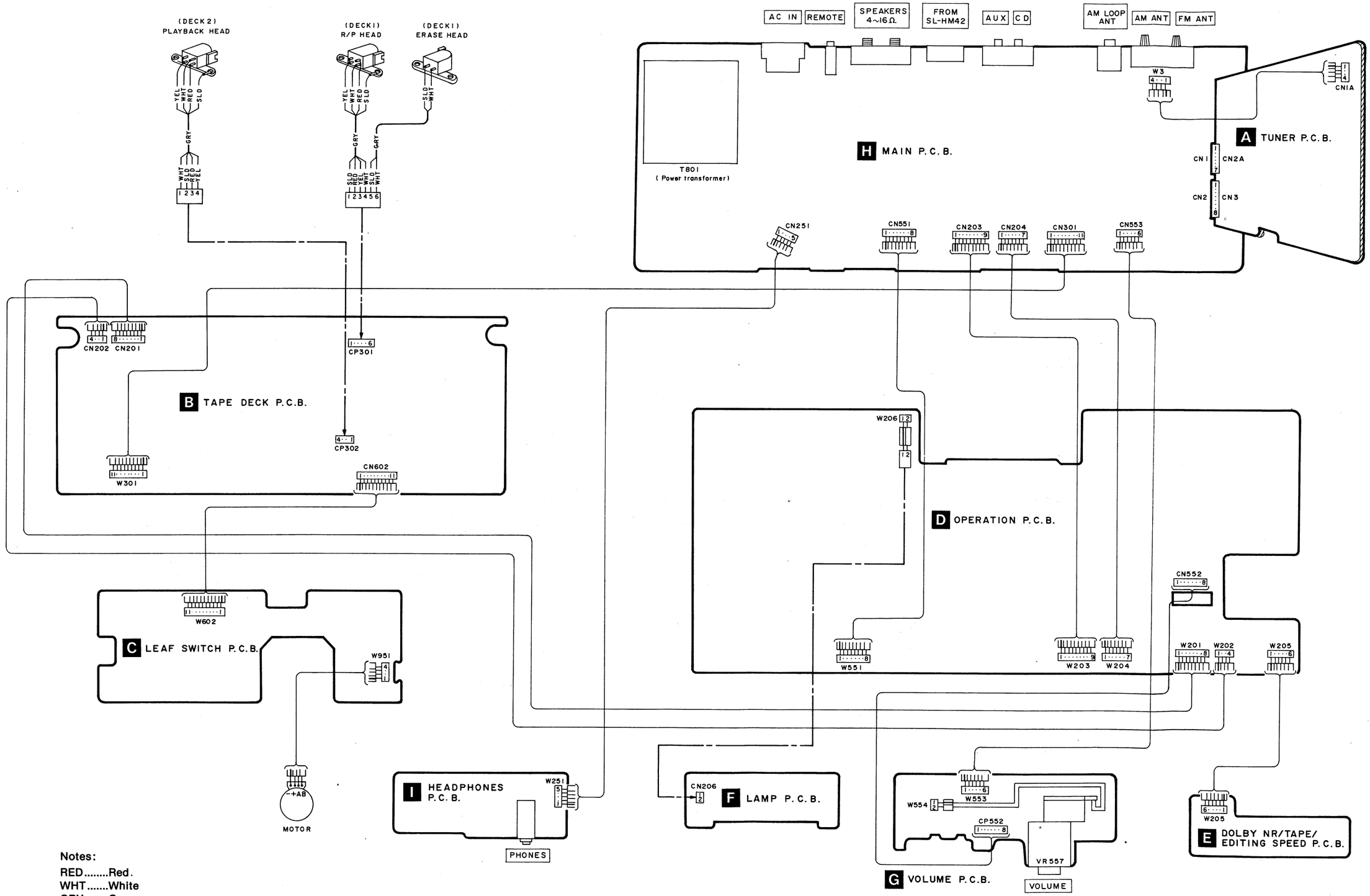
F LAMP P.C.B.



G VOLUME P.C.B.



■ WIRING CONNECTION DIAGRAM

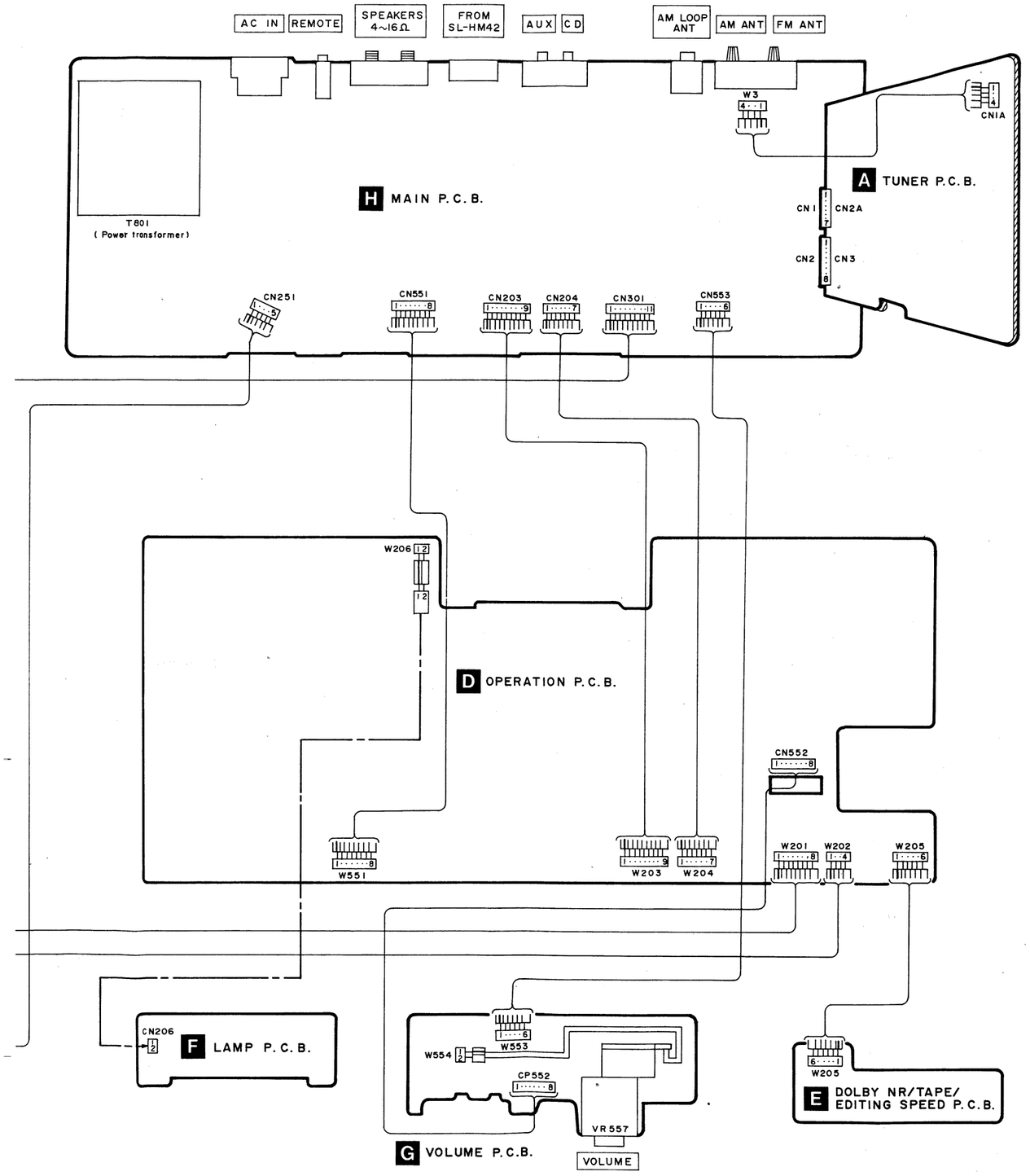


Notes:
RED.....Red.
WHT.....White
GRY.....Gray
SLD.....Shield Wire
YEL.....Yellow

■ REPLACE

Notes : * Import
Compon
compon
* The pa
Parts
* Ⓜ Ind

Ref. No.	Part No.
1	RYK0084-1
2	XTB4+12JFZ
3	RSC0169
4	RMN0116
5	SJT345
6	SHR9094
7	SNE1004-1
8	XTB3+8J
9	RJF28ZA
10	RMR0368
11	RBD248YAB-(
12	RDG0129
13	RFKHAHM42E-
13	RGR0120C-D
14	RFKGAHM42E-
15	RGU0342
16	RGU0536-K
17	RGU0538-K
18	RGU0573-K
19	RGU0574-K
20	RGU0575-K
21	RGW0075
22	RGW0116-K
23	RFKLAHM32PA
24	RFKLAHM32PE
25	RKM0163-K
26	RKM0164-K
27	RME0077-1
28	RMK0125
29	RMN0114
30	RMQ0235
31	RMQ0242
32	RMR0247
33	RMR0403
34	RMR0404
35	SGL270-1
36	SGL271-1
37	SHE187-3
38	SHS3276
39	SHR9809
40	SUX102
41	SUW3007-1
42	XNS7B



■ REPLACEMENT PARTS LIST

Notes : * Important safety notice:
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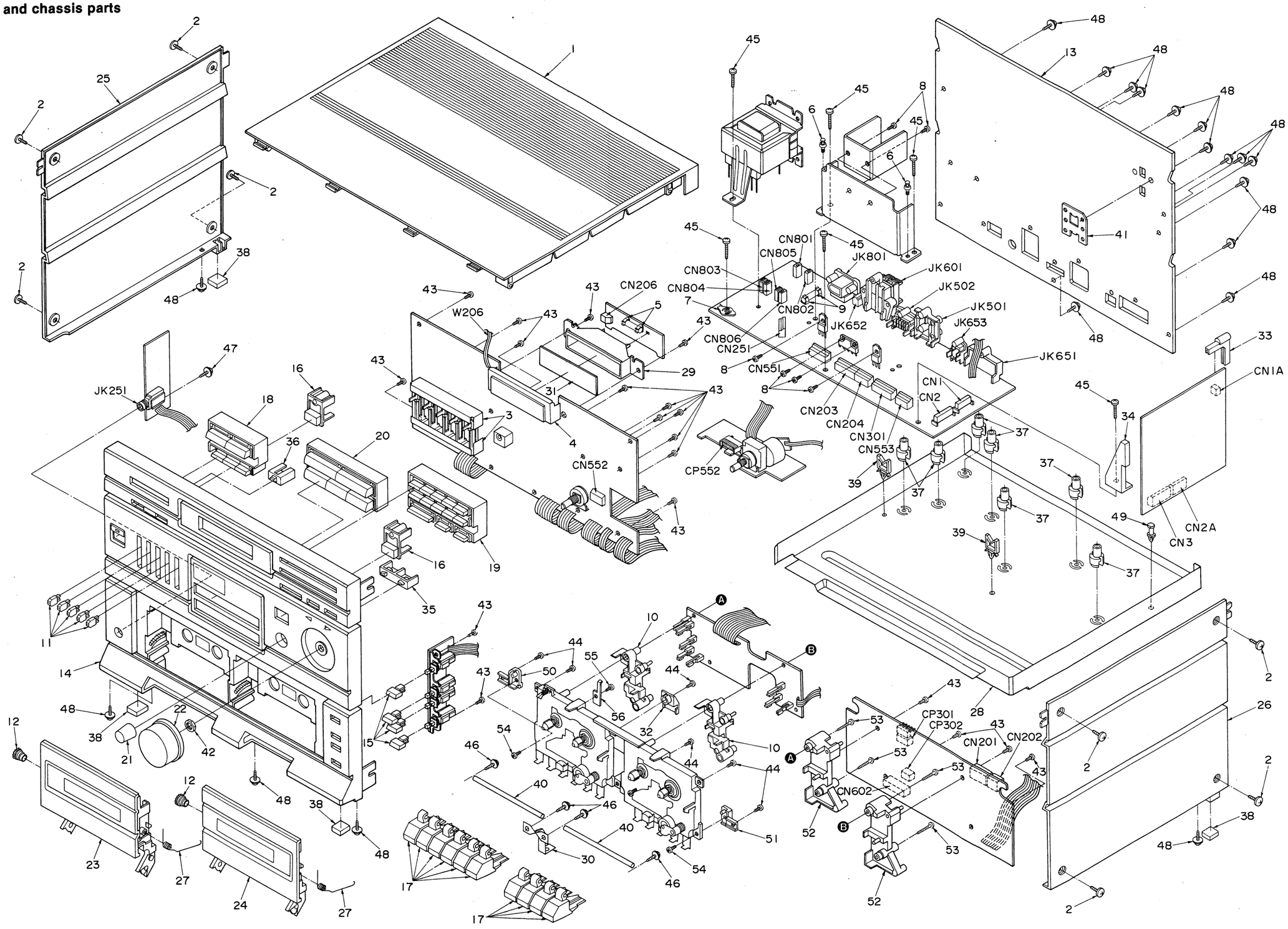
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
* Ⓜ Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RYKD084-1	TOP BOARD	Ⓜ
2	XTB4+12JFZ	SCREW	
3	RSC0169	GEQ SHIELD CASE	Ⓜ
4	RMN0116	LCD HOLDER	Ⓜ
5	SJT345	LAMP HOLDER	
6	SHR9094	PLASTIC RIVET	
7	SNE1004-1	GND PLATE	
8	XTB3+8J	SCREW	
9	RJF28ZA	FUSE CLIP	
10	RMR0368	LEAF SWITCH HOLDER	Ⓜ
11	RBD248YAB-0	GRAPHIC EQUALIZER KNOB	Ⓜ
12	RDG0129	DAMPER GEAR	Ⓜ
13	RFKHAHM42E-K	REAR BOARD	(E)Ⓜ
13	RGR0120C-D	REAR BOARD	(EB)Ⓜ
14	RFKGAHM42E-K	FRONT PANEL ASS'Y	Ⓜ
15	RGU0342	EDITING BUTTON	Ⓜ
16	RGU0536-K	POWER/SUPER BASS BUTTON	Ⓜ
17	RGU0538-K	CASSETTE BUTTON	Ⓜ
18	RGU0573-K	TUNER BUTTON A	Ⓜ
19	RGU0574-K	TUNER BUTTON B	Ⓜ
20	RGU0575-K	INPUT SELECTOR BUTTON	Ⓜ
21	RGW0075	BALANCE VOLUME KNOB	Ⓜ
22	RGW0116-K	MAIN VOLUME KNOB	Ⓜ
23	RFKLAHM32PAK	CASSETTE HOLDER ASS'Y 1	Ⓜ
24	RFKLAHM32PBK	CASSETTE HOLDER ASS'Y 2	Ⓜ
25	RKM0163-K	SIDE BOARD(L)	Ⓜ
26	RKM0164-K	SIDE BOARD(R)	Ⓜ
27	RME0077-1	CASSETTE OPEN SPRING	Ⓜ
28	RMK0125	BOTTOM CHASSIS	Ⓜ
29	RMN0114	LCD LAMP HOUSE	Ⓜ
30	RMQ0235	BUTTON SHAFT ANGLE	Ⓜ
31	RMQ0242	OPTICAL DIFFUSION PLATE	Ⓜ
32	RMR0247	MECHA SUPPORT	Ⓜ
33	RMR0403	RF PCB FRONT SUPPORT	Ⓜ
34	RMR0404	RF PCB REAR SUPPORT	Ⓜ
35	SGL270-1	VOLUME PANEL LIGHT	Ⓜ
36	SGL271-1	POWER PANEL LIGHT	Ⓜ
37	SHE187-3	MAIN PCB SUPPORT	
38	SHS3276	LEG CUSHION	Ⓜ
39	SHR9809	WIRE SADDLE	
40	SUX102	CASSETTE BUTTON SHAFT	Ⓜ
41	SUW3007-1	LOOP ANTENNA ANGLE	
42	XNS7B	NUT	

Ref. No.	Part No.	Part Name & Description	Remarks
43	XTBS26+10J	SCREW	
44	XTB3+12JFR	SCREW	
45	XTB3+20J	SCREW	
46	XTWS3+8T	SCREW	
47	XTWS3+10Q	SCREW	
48	XTW3+12T	SCREW	
49	RMR0406	PCB SUPPORT	Ⓜ
50	RMR0231-1	MECHA SUPPORT(L)	Ⓜ
51	RMR0410	MECHA SUPPORT(R)	Ⓜ
52	RMR0401	MECHA PCB SUPPORT	Ⓜ
53	XTN2+16GFZ	SCREW	
54	XTB3+10J	SCREW	
55	XTN2+6J	SCREW	
56	RMA0469	REC MUTING ANGLE	Ⓜ
		PAKCING MATERIAL	
P1	RPG0921	PACKING CASE	Ⓜ
P2	RPH0040	SHEET	Ⓜ
P3	XZB28X35A04	PROTECTION BAG(P. MAT)	Ⓜ
P4	RPN0458	PAD	Ⓜ
P5	RPN0371	PAD(REMOTE CONTROL)	Ⓜ
P6	RPN0460	PAD(HINGE)	Ⓜ
P7	SPP748-2	PROTECTION BAG(UNIT)	Ⓜ
P8	SPB1061	PROTECTION BAG(F. B.)	
		ACCESSORIES	
A1	RFKSAHM42E-K	INST. MANUAL ASS'Y	(E)Ⓜ
A1	RQT1030-B	INSTRUCTION MANUAL	(EB)Ⓜ
A2	RQA0013	WARRANTY CARD	
A3	RQCB0169	SERVICENTER LIST	
A4	RAK-SG301EM	REMOTE CONTROL TRANSMITTER	Ⓜ
A4-1	RKK0008-KE	BATTERY COVER	Ⓜ
A5	SBH9383	HINGE	
A6	SFDAC05E03	AC POWER SUPPLY CORD	(E)⚠
A6	RJA86ZB-K	AC POWER SUPPLY CORD	(EB)⚠
A7	SJP9009	ATTACHMENT PLUG	
A8	SJY4076	PLATTER MAT	Ⓜ
A9	SJY5018-1	45-RPM ADAPTOR	
A10	SSA269	FM INDOOR ANTENNA	
A11	SPB1163	AM LOOP ANTENNA	Ⓜ
A11-1	SMA233-1	AM ANTENNA HOLDER	
A11-2	XTB3+10J	SCREW	
A12	SYE1130	DUST COVER	Ⓜ

■ EXPLODED VIEWS

- **Cabinet and chassis parts**



■REPLACEMENT PARTS LIST

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* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
* Ⓜ Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM	
		<DECK1>	
101	RDVD007	MAIN BELT	Ⓜ
102	RJRD033	TERMINAL	Ⓜ
103	RMBD109-1	SPRING	Ⓜ
104	RMLD116	ARM	
105	RBR2CGD01-M	E HEAD	Ⓜ
106	RDGD057	GEAR	Ⓜ
107	RDGD059	GEAR	Ⓜ
108	RDKD005	GEAR	Ⓜ
109	RDVD006-1	BELT	Ⓜ
110	RHW16009	WASHER	Ⓜ
111	RMAD109	ANGLE	Ⓜ
112	RMBD043-1	SPRING	Ⓜ
113	RMBD045	SPRING	Ⓜ
114	RMBD046-1	SPRING	Ⓜ
115	RMBD047	SPRING	Ⓜ
116	RMBD048	SPRING	Ⓜ
117	RMBD053	SPRING	Ⓜ
118	RMBD125	SPRING	Ⓜ
119	RMCD061	SPRING	Ⓜ
120	RFKRCTD90P-K	CHASSIS ASS'Y	Ⓜ
121	RMLD071	LEVER	Ⓜ
122	RMLD072	LEVER	Ⓜ
123	RMLD073-1	LEVER	Ⓜ
124	RMLD074	LEVER	Ⓜ
125	RMLD076	LEVER	Ⓜ
126	RMLD077	LEVER	Ⓜ
127	RMLD078	LEVER	Ⓜ
128	XTB2+7F	SCREW	Ⓜ
129	RMLD081-1	LEVER	Ⓜ
130	RMLD082	LEVER	Ⓜ
131	RMMD023	PLAY ROD	Ⓜ
132	RMMD024	REW ROD	Ⓜ
133	RMMD025	FF ROD	Ⓜ
134	RMMD026	STOP ROD	Ⓜ
135	RMMD027	PAUSE ROD	Ⓜ
136	RMMD028	REC ROD	Ⓜ
137	RMMD029	EJECT ROD	Ⓜ
138	RMRD211	STOPPER	Ⓜ
139	RMRD227	STOPPER	Ⓜ
140	RMSD055	PIN	Ⓜ
141	RXFD012	FLYWHEEL ASS'Y	Ⓜ

Ref. No.	Part No.	Part Name & Description	Remarks
141-1	RHW21008	WASHER	Ⓜ
142	RMBD044	SPRING	Ⓜ
143	RMLD075	LEVER	Ⓜ
144	RXPD014	PULLY ASS'Y	Ⓜ
145	RXPD015	ROLLER ASS'Y	Ⓜ
145-1	RMBD049	SPRING	Ⓜ
146	RBR4CMD01-M	R/P HEAD	Ⓜ
147	RHD20003	SCREW	Ⓜ
149	RFKRGHM09LEK	HEAD BASE	Ⓜ
150	RMBD059	SPRING	Ⓜ
151	RMRD159	GUIDE	Ⓜ
152	XTN2+4F	SCREW	
153	XTN2+8F	SCREW	
154	RXRD004	TAKE UP REEL ASS'Y	Ⓜ
155	RXRD005	SUPPLY REEL ASS'Y	Ⓜ
156	XTN2+6J	SCREW	
157	XTW26+8L	SCREW	
158	REXD319-1	LEAD WIRE(DECK1)	Ⓜ

Ref. No.	Part No.	Part Name & Description	Remarks
		<DECK2>	
201	RDVD009	MAIN BELT	Ⓜ
202	RJRD033	TERMINAL	Ⓜ
203	RMBD109-1	SPRING	Ⓜ
204	RMLD116	ARM	
206	RXKD059	GEAR	
207	RDGD057	GEAR	Ⓜ
208	RDGD059	GEAR	Ⓜ
209	RDKD005	BELT	Ⓜ
210	RHW16009	WASHER	Ⓜ
211	RMAD109	ANGLE	Ⓜ
212	RMBD043-1	SPRING	Ⓜ
213	RMBD045	SPRING	Ⓜ
214	RMBD046-1	SPRING	Ⓜ
215	RMBD047	SPRING	Ⓜ
216	RMBD048	SPRING	Ⓜ
217	RMBD053	SPRING	Ⓜ
218	RMBD125	SPRING	Ⓜ
219	RMCD061	SPRING	Ⓜ
220	RFKRCTD90P-K	CHASSIS ASS'Y	Ⓜ
221	RMLD071	LEVER	Ⓜ
222	RMLD072	LEVER	Ⓜ
223	RMLD073-1	LEVER	Ⓜ
224	RMLD074	LEVER	Ⓜ
225	RMLD076	LEVER	Ⓜ
226	RMLD077	LEVER	Ⓜ
227	RMLD078	LEVER	Ⓜ
230	RMLD082	LEVER	Ⓜ
231	RMMD023	PLAY ROD	Ⓜ
232	RMMD024	REW ROD	Ⓜ
233	RMMD025	FF ROD	Ⓜ
234	RMMD026	STOP ROD	Ⓜ
235	RMMD027	PAUSE ROD	Ⓜ
237	RMMD029	EJECT ROD	Ⓜ
238	RMRD211	STOPPER	Ⓜ
239	RMRD227	STOPPER	Ⓜ
240	RMSD055	PIN	Ⓜ
241	RXFD012	FLYWHEEL ASS'Y	Ⓜ
241-1	RHW21008	WASHER	Ⓜ
242	RMBD044	SPRING	Ⓜ
243	RMLD075	LEVER	Ⓜ
244	RXPD014	PULLEY ASS'Y	Ⓜ
245	RXPD015	ROLLER ASS'Y	Ⓜ
245-1	RMBD049	SPRING	Ⓜ
246	RBR4CMD01-M	P HEAD	Ⓜ
247	RHD20003	SCREW	Ⓜ
249	RMAD107	HEAD BASE	Ⓜ
250	RMBD059	SPRING	Ⓜ
251	RMRD149	GUIDE	Ⓜ
252	XTN2+4F	SCREW	

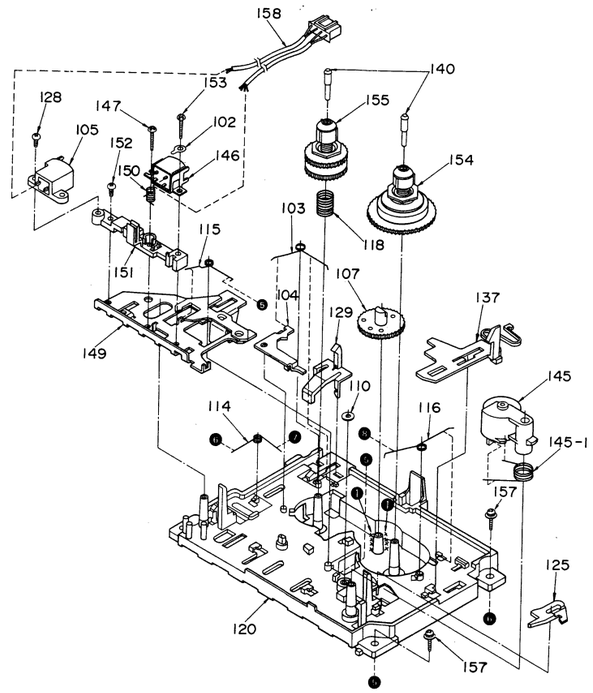
Ref. No.	Part No.	Part Name & Description	Remarks
253	XTN2+8F	SCREW	
254	RXRD004	TAKE UP REEL ASS'Y	Ⓜ
255	RXRD005	SUPPLY REEL ASS'Y	Ⓜ
256	XTN2+6J	SCREW	
257	XTW26+8L	SCREW	
260	RFKPCTD90P-K	DC MOTOR ASS'Y	Ⓜ
261	RHD26002	SCREW	
262	RMAD122	ANGLE	
263	RMGD102	RUBBER SPACER	Ⓜ
264	RMGD131	RUBBER SPACER	Ⓜ
265	RMAD121	ANGLE	
266	RMLD085	LEVER	Ⓜ
267	REXD320-1	LEAD WIRE(DECK2)	Ⓜ

■ EXPLODED VIEWS

• Cassette deck parts

(DECK 1)

(Top view)



(Bottom view)

(DECK 2)

Specification

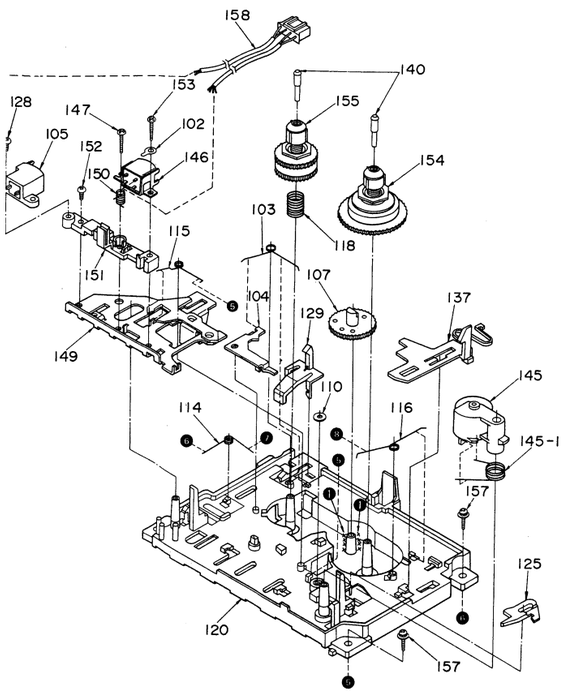
Playback torque	**25~55g • cm**
Fast Forward torque	**65~130g • cm**
Takeup torque	**25~60g • cm**
Wow and flutter	**Less than 0.25% (WRMS)**

Note: When changing mechanism parts, apply the specified grease to the areas marked "× ×" as shown in the drawing.

Ref. No.	Part No.
❶	SZZ0L25
❷	RZZ0L06

(Bottom view)

5 6 7 8 9 10 11 12 13 14



(Bottom view)

Specification

Playback torque	25~55g • cm
Fast Forward torque	65~130g • cm
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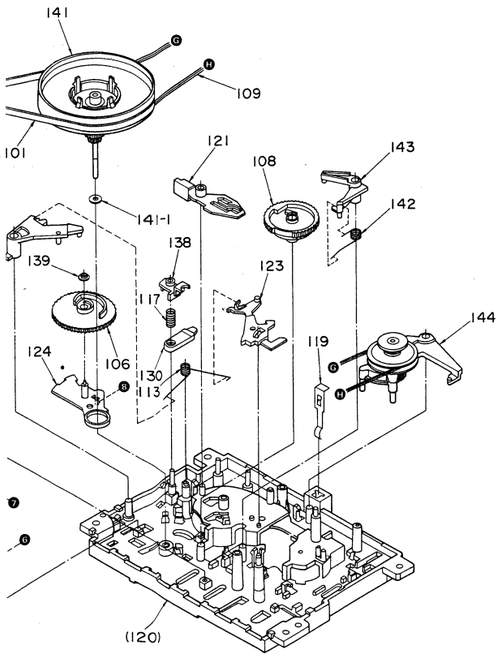
Wow and flutter	Less than 0.25% (WRMS)

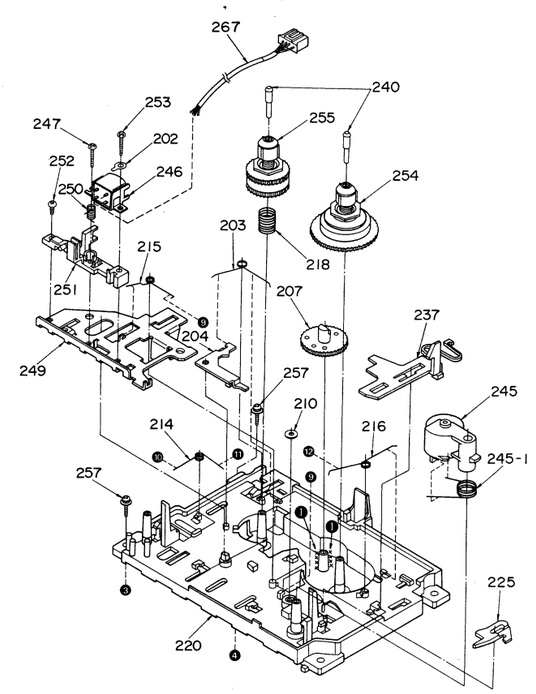
Note: When changing mechanism parts, apply the specified grease to the areas marked "× ×" as shown in the drawing.

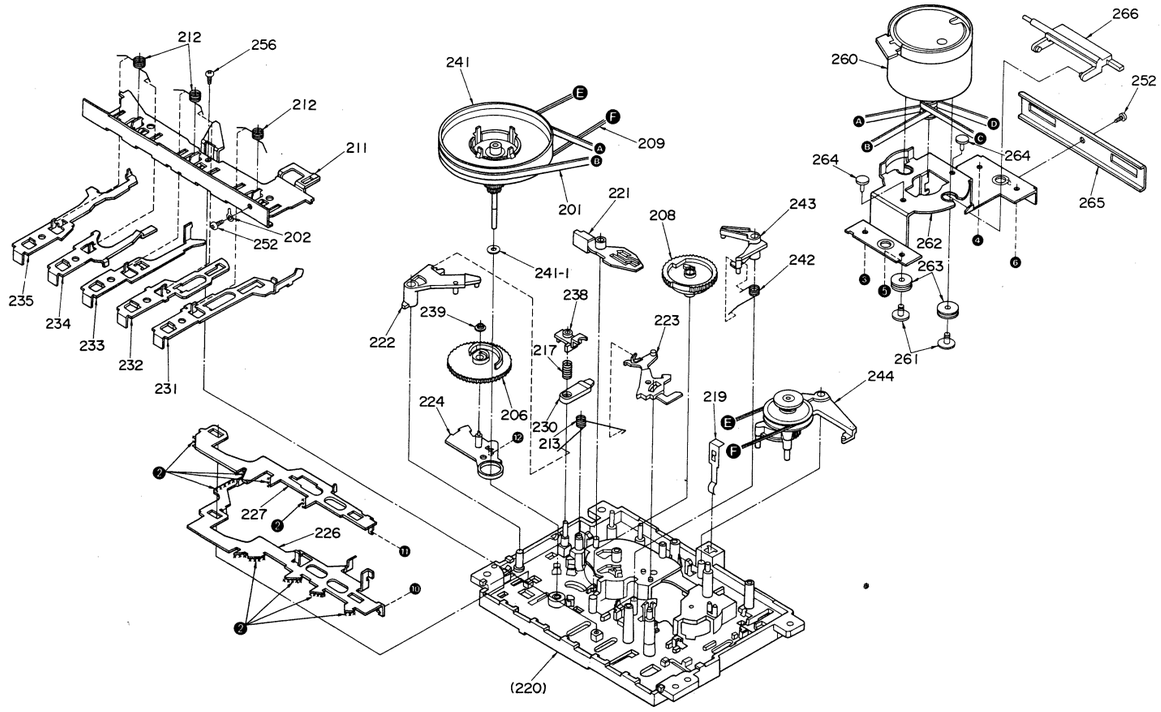
Ref. No.	Part No.
❶	SZZ0L25
❷	RZZ0L06



(DECK 2)

(Top view)





■ REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
* Ⓜ Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
•			
IC1	AN7273W	IC, FM/AM IF AMP DET&MIXER	
IC2	RV1BA1332L	IC, FM MPX	
IC3	LM7001	IC, PLL FREQ. SYNTHESIZER	
IC201	UPD75306G173	IC, MICROCOMPUTER	Ⓜ
IC301	BA3416BL	IC, PLAYBACK EQ AMP	
IC302	BU4066B	IC, P. B. SELECTOR	
IC303	UPC4570HA	IC, REC AMP	Ⓜ
IC401	UPC4570HA	IC, BUFFER AMP	Ⓜ
IC402	CXA1101P	IC, DOLBY B NR	
IC501	TC9163N	IC, INPUT SELECTOR	
IC551	BA3822LS-M	IC, GRAPHIC EQUALIZER AMP	Ⓜ
IC552	BA6218	IC, VOLUME MOTOR DRIVE	
IC601	TA8216H	IC, POWER AMP	Ⓜ
IC801	AN78M05	IC, REGULATOR	
		TRANSISTOR(S)	
Q1	2SK544F-AC	TRANSISTOR	
Q2	2SC2786M	TRANSISTOR	
Q3, 4	2SC1675LTA	TRANSISTOR	Ⓜ
Q5	2SC2787L	TRANSISTOR	
Q6	2SA933STA	TRANSISTOR	Ⓜ
Q7-10	2SC1740SQ	TRANSISTOR	
Q12, 13	BN1L3NTA	TRANSISTOR	Ⓜ
Q14	2SC1740SQ	TRANSISTOR	
Q15	2SC1740SQ	TRANSISTOR	
Q16	2SC1740SQ	TRANSISTOR	
Q17-21	2SC1740SQ	TRANSISTOR	
Q22	2SC2787L	TRANSISTOR	
Q201-203	2SC1740SQ	TRANSISTOR	
Q204	RVTDTA144EST	TRANSISTOR	
Q209	2SA933STA	TRANSISTOR	Ⓜ
Q210	RVTDTC114ES	TRANSISTOR	
Q211, 212	2SC1740SQ	TRANSISTOR	
Q213	2SA933STA	TRANSISTOR	Ⓜ
Q214	2SC1740SQ	TRANSISTOR	
Q303, 304	2SC1740SQ	TRANSISTOR	
Q305, 306	2SC2001K	TRANSISTOR	
Q307, 308	2SJ40CDTA	TRANSISTOR	
Q309, 310	2SC2001K	TRANSISTOR	
Q311, 312	2SC1740SQ	TRANSISTOR	
Q313, 314	2SK381BCDTA	TRANSISTOR	
Q315, 316	2SC2001K	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q317-320	2SC1740SQ	TRANSISTOR	
Q321-323	RVTDTC114ES	TRANSISTOR	
Q324	RVTDTA114SET	TRANSISTOR	
Q401, 402	2SC2001K	TRANSISTOR	
Q403	2SD592NCR	TRANSISTOR	
Q404	RVTDTC144TST	TRANSISTOR	
Q405	2SC1740SQ	TRANSISTOR	
Q406	2SB621R	TRANSISTOR	
Q407, 408	2SC2001K	TRANSISTOR	
Q409	DTC124EST	TRANSISTOR	
Q410	2SC1740SQ	TRANSISTOR	
Q411, 412	2SC2001K	TRANSISTOR	
Q413	2SC1740SQ	TRANSISTOR	
Q414, 415	RVTDTC114ES	TRANSISTOR	
Q420	RVTDTA114SET	TRANSISTOR	
Q421	2SC1740SQ	TRANSISTOR	
Q430	RVTDTC144TST	TRANSISTOR	
Q431	2SC1740SQ	TRANSISTOR	
Q501, 502	2SC1740STA	TRANSISTOR	
Q551, 552	2SC1740SQ	TRANSISTOR	
Q553, 554	2SJ40CDTA	TRANSISTOR	
Q557-559	2SC1740SQ	TRANSISTOR	
Q601, 602	2SC2001K	TRANSISTOR	
Q603	2SA933STA	TRANSISTOR	Ⓜ
Q604	RVTDTC114ES	TRANSISTOR	
Q651, 652	2SC1740STA	TRANSISTOR	
Q653	2SA933STA	TRANSISTOR	Ⓜ
Q654	RVTDTC114ES	TRANSISTOR	
Q671, 672	2SC1740STA	TRANSISTOR	
Q673	2SA933STA	TRANSISTOR	Ⓜ
Q801, 802	2SD1273P	TRANSISTOR	
Q803	RVTDTC114ES	TRANSISTOR	
Q804	2SC3311R	TRANSISTOR	
Q805	2SC2001K	TRANSISTOR	
Q806	2SA885-QRS	TRANSISTOR	
Q807	2SA933STA	TRANSISTOR	Ⓜ
Q951, 952	RVTDTC114ES	TRANSISTOR	
Q953	2SK301QTA	TRANSISTOR	Ⓜ
Q954	RVTDTA114SET	TRANSISTOR	
Q955	2SC1740SQ	TRANSISTOR	
Q956	RVTDTA114SET	TRANSISTOR	
		DIODE(S)	
D1	SVC211SPA-AL	DIODE	
D2	SVC211SPA-AL	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D3	SVC211SPA-AL	DIODE	
D12	RVDMTZ5R1CTA	DIODE	
D15-17	RVD1SS133TA	DIODE	
D202, 203	SLR33VC70F08	DIODE	Ⓜ
D204, 205	RVD1SS133TA	DIODE	
D206	MA700TA	DIODE	
D207	MA165	DIODE	
D208-211	RVD1SS133TA	DIODE	
D213, 214	RVD1SS133TA	DIODE	
D216	RVD1SS133TA	DIODE	
D219-223	RVD1SS133TA	DIODE	
D229, 230	RVD1SS133TA	DIODE	
D303-307	RVD1SS133TA	DIODE	
D401-404	RVD1SS133TA	DIODE	
D405, 406	MA165	DIODE	
D407-409	RVD1SS133TA	DIODE	
D410	RVD1SR35TR	DIODE	
D411	RVD1SS133TA	DIODE	
D412	RVDMTZ6R8BTA	DIODE	
D413-416	RVD1SS133TA	DIODE	
D551	SLR33VC70F08	DIODE	Ⓜ
D801-804	1N5402BM21	DIODE	⚠Ⓜ
D805	RVDMTZ12CTA	DIODE	
D806	RVDMTZ15CTA	DIODE	Ⓜ
D807	RVDMTZ5R6CTA	DIODE	Ⓜ
D808	RVD1SR35TR	DIODE	⚠
D809	RVDMTZ5R6BTA	DIODE	
D810	RVD1SS133TA	DIODE	
D811	RVDMTZ9R1BTA	DIODE	
D812	RVD1SR35TR	DIODE	⚠
D951-959	RVD1SS133TA	DIODE	
		VARIABLE RESISTOR(S)	
VR1	EVNDXAA00B14	V. R, FM STEREO ADJ.	
VR301-304	RVNCC24B1T-A	V. R, PLAYBACK GAIN ADJ.	
VR305, 306	RVNCC25B1T-A	V. R, RECORDING BIAS ADJ.	Ⓜ
VR307, 308	RVNCC24B1T-A	V. R, RECORDING CURRENT ADJ.	
VR551-555	EWAHQ2C95G54	V. R, EQ CONTROLS	
VR556	EWHFDAF20G15	V. R, BALANCE	
VR557	EUWMN2F20B15	V. R, VOLUME	Ⓜ
VR951	RVNCC24B1T-A	V. R, MOTOR SPEED ADJ.	
		THERMISTOR(S)	
TH201	PTH2011031A	THERMISTOR	Ⓜ
		COIL(S)	
L3, 4	RLQZP1R2KT-Y	COIL	
L13	RLQZPR47KT-Y	COIL	
L15	RLQZP101KT-Y	COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L301, 302	SLQX303-1KT	COIL	
L303, 304	RLQZB272KT-D	COIL	Ⓜ
L305, 306	SLQX303-1KT	COIL	
L401	SL09C9-K	COIL	
L403, 404	RLM2B003-K	COIL	
L551, 552	RLQZP2R2KT-Y	COIL	
L601, 602	RLQZP2R2KT-Y	COIL	
		TRANSFORMER(S)	
T3	SLI4B511-Z	TRANSFORMER/FM ZERO VOLTAGE	
T4	SLI4B513-Z	TRANSFORMER	
T801	RTP1M3E003-V	POWER TRANSFORMER	(E)⚠Ⓜ
T801	RTP1M3B002-V	POWER TRANSFORMER	(EB)⚠Ⓜ
		COMPONENT COMBINATION(S)	
Z1	RLA6Z002-T	COMPONENT COMBINATION	
Z2	RLI2Z003-T	COMPONENT COMBINATION	Ⓜ
Z202	RCDGP1U509X	REMOTE SENSOR	
		FILTER(S)	
CF1, 2	SVFE107MS2-A	CERAMIC FILTER	
		OSCILLATOR(S)	
X1	SVQ49U722T-D	OSCILLATOR, 7.2MHz	Ⓜ
X201	RSXY4M19M03T	OSCILLATOR, 4.19MHz	Ⓜ
		DISPLAY(S)	
Z201	RSL5042-L	LCD DISPLAY	Ⓜ
		LAMP	
LAMP1	XAMR127P	LAMP	Ⓜ
		FUSE(S)	
F801	XBA2C04TB0	FUSE 250V 400mA	⚠
		SWITCH(ES)	
S201	EVQ21409K	SW, PRESET TUNING(1)	
S202	EVQ21409K	SW, PRESET TUNING(2)	
S203	EVQ21409K	SW, PRESET TUNING(3)	
S204	EVQ21409K	SW, PRESET TUNING(4)	
S205	EVQ21409K	SW, PRESET TUNING(5)	
S206	EVQ21409K	SW, PRESET TUNING(6)	
S207	EVQ21409K	SW, PRESET TUNING(7)	
S208	EVQ21409K	SW, PRESET TUNING(8)	

Ref. No.	Part No.	
S209	EVQ21409K	S
S210	EVQ21409K	S
S211	EVQ21409K	S
S212	EVQ21409K	S
S213	EVQ21409K	S
S214	EVQ21409K	S
S215	EVQ21409K	S
S216	EVQ21409K	S
S217	EVQ21409K	S
S218	EVQ21409K	S
S219	EVQ21409K	S
S220	EVQ21409K	S
S221	EVQ21409K	S
S222	EVQ21409K	S
S223	EVQ21409K	S
S224	EVQ21409K	S
S225	EVQ21409K	S
S226-229	RSP4004-J	S
S951	RSH1A004-1	S
S952	RSH1A004-1	S
S953	RSH1A004-1	S
S954	RSH1A004-1	S
S955	RSH1A013-J	S
S956	RSH1A013-J	S
S957	RSH1A004-1	S
S958	RSH1A004-1	S
		R
RLY801	RSY0005-1C	R
		C
CN1	SJS50778JQ	S
CN1A	RJS4T5ZA	C
CN2	SJS50978JQ	S
CN2A	SJT3711	C
CN3	SJT3909	C
CN201	RJS8T6ZA	C
CN202	RJS4T6ZA	C
CN203	RJS9T5ZA	C
CN204	RJS7T5ZA	C
CN206	RJP2G9YA	C
CN251	RJS5T5ZA	C
CN301	SJT31143-V	C
CN551	RJS8T5ZA	C
CN552	RJT003KD08M1	C
CN553	RJS6T5ZA	C
CN602	SJT31143-V	C
CN801-806	RJS1A1101	S
CP301	RJP6G18ZA	S
CP302	RJP4G18ZA	S

f these
a.)

Remarks

Ref. No.	Part No.	Part Name & Description	Remarks
D3	SVC211SPA-AL	DIODE	
D12	RVDMTZ5R1CTA	DIODE	
D15-17	RVD1SS133TA	DIODE	
D202, 203	SLR33VC70F08	DIODE	Ⓜ
D204, 205	RVD1SS133TA	DIODE	
D206	MA700TA	DIODE	
D207	MA165	DIODE	
D208-211	RVD1SS133TA	DIODE	
D213, 214	RVD1SS133TA	DIODE	
D216	RVD1SS133TA	DIODE	
D219-223	RVD1SS133TA	DIODE	
D229, 230	RVD1SS133TA	DIODE	
D303-307	RVD1SS133TA	DIODE	
D401-404	RVD1SS133TA	DIODE	
D405, 406	MA165	DIODE	
D407-409	RVD1SS133TA	DIODE	
D410	RVD1SR35TR	DIODE	
D411	RVD1SS133TA	DIODE	
D412	RVDMTZ6R8BTA	DIODE	
D413-416	RVD1SS133TA	DIODE	
D551	SLR33VC70F08	DIODE	Ⓜ
D801-804	1N5402BM21	DIODE	⚠Ⓜ
D805	RVDMTZ12CTA	DIODE	
D806	RVDMTZ15CTA	DIODE	Ⓜ
D807	RVDMTZ5R6CTA	DIODE	Ⓜ
D808	RVD1SR35TR	DIODE	⚠
D809	RVDMTZ5R6BTA	DIODE	
D810	RVD1SS133TA	DIODE	
D811	RVDMTZ9R1BTA	DIODE	
D812	RVD1SR35TR	DIODE	⚠
D951-959	RVD1SS133TA	DIODE	
		VARIABLE RESISTOR(S)	
VR1	EVNDXAA00B14	V. R, FM STEREO ADJ.	
VR301-304	RVNCC24B1T-A	V. R, PLAYBACK GAIN ADJ.	
VR305, 306	RVNCC25B1T-A	V. R, RECORDING BIAS ADJ.	Ⓜ
VR307, 308	RVNCC24B1T-A	V. R, RECORDING CURRENT ADJ.	
VR551-555	EWAHQ2C95G54	V. R, EQ CONTROLS	
VR556	EWHFDAF20G15	V. R, BALANCE	
VR557	EUWMN2F20B15	V. R, VOLUME	Ⓜ
VR951	RVNCC24B1T-A	V. R, MOTOR SPEED ADJ.	
		THERMISTOR(S)	
TH201	PTH2011031A	THERMISTOR	Ⓜ
		COIL(S)	
L3, 4	RLQZP1R2KT-Y	COIL	
L13	RLQZPR47KT-Y	COIL	
L15	RLQZP101KT-Y	COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L301, 302	SLQX303-1KT	COIL	
L303, 304	RLQZB272KT-D	COIL	Ⓜ
L305, 306	SLQX303-1KT	COIL	
L401	SL09C9-K	COIL	
L403, 404	RLM2B003-K	COIL	
L551, 552	RLQZP2R2KT-Y	COIL	
L601, 602	RLQZP2R2KT-Y	COIL	
		TRANSFORMER(S)	
T3	SLI4B511-Z	TRANSFORMER/FM ZERO VOLTAGE	
T4	SLI4B513-Z	TRANSFORMER	
T801	RTP1M3E003-V	POWER TRANSFORMER	(E)⚠Ⓜ
T801	RTP1M3B002-V	POWER TRANSFORMER	(EB)⚠Ⓜ
		COMPONENT COMBINATION(S)	
Z1	RLA6Z002-T	COMPONENT COMBINATION	
Z2	RLI2Z003-T	COMPONENT COMBINATION	Ⓜ
Z202	RCDGP1U509X	REMOTE SENSOR	
		FILTER(S)	
CF1, 2	SVFE107MS2-A	CERAMIC FILTER	
		OSCILLATOR(S)	
X1	SVQ49U722T-D	OSCILLATOR, 7.2MHz	Ⓜ
X201	RSXY4M19M03T	OSCILLATOR, 4.19MHz	Ⓜ
		DISPLAY(S)	
Z201	RSL5042-L	LCD DISPLAY	Ⓜ
		LAMP	
LAMP1	XAMR127P	LAMP	Ⓜ
		FUSE(S)	
F801	XBA2C04TB0	FUSE 250V 400mA	⚠
		SWITCH(ES)	
S201	EVQ21409K	SW, PRESET TUNING(1)	
S202	EVQ21409K	SW, PRESET TUNING(2)	
S203	EVQ21409K	SW, PRESET TUNING(3)	
S204	EVQ21409K	SW, PRESET TUNING(4)	
S205	EVQ21409K	SW, PRESET TUNING(5)	
S206	EVQ21409K	SW, PRESET TUNING(6)	
S207	EVQ21409K	SW, PRESET TUNING(7)	
S208	EVQ21409K	SW, PRESET TUNING(8)	

Ref. No.	Part No.	Part Name & Description	Remarks
S209	EVQ21409K	SW, PRESET TUNING(9)	
S210	EVQ21409K	SW, PRESET TUNING(0)	
S211	EVQ21409K	SW, MEMORY SCAN	
S212	EVQ21409K	SW, MEMORY	
S213	EVQ21409K	SW, FM MODE/B.P	
S214	EVQ21409K	SW, SUPER BASS	
S215	EVQ21409K	SW, TUNING(DOWN)	
S216	EVQ21409K	SW, TUNING(UP)	
S217	EVQ21409K	SW, BAND(FM)	
S218	EVQ21409K	SW, BAND(LW)	
S219	EVQ21409K	SW, BAND(MW)	
S220	EVQ21409K	SW, POWER	
S221	EVQ21409K	SW, INPUT SELECTOR(AUX)	
S222	EVQ21409K	SW, INPUT SELECTOR(CD)	
S223	EVQ21409K	SW, INPUT SELECTOR(TAPE)	
S224	EVQ21409K	SW, INPUT SELECTOR(TUNER)	
S225	EVQ21409K	SW, INPUT SELECTOR(PHONO)	
S226-229	RSP4004-J	SW, DOLBY/TAPE/EDITING SPEED	Ⓜ
S951	RSH1A004-1	SW, P.B. (DECK1)	Ⓜ
S952	RSH1A004-1	SW, P.B. (DECK2)	Ⓜ
S953	RSH1A004-1	SW, F.R. (DECK1)	Ⓜ
S954	RSH1A004-1	SW, F.R. (DECK2)	Ⓜ
S955	RSH1A013-J	SW, MOTOR(DECK1)	Ⓜ
S956	RSH1A013-J	SW, MOTOR(DECK2)	Ⓜ
S957	RSH1A004-1	SW, REC MUTE	Ⓜ
S958	RSH1A004-1	SW, REC(DECK1)	Ⓜ
		RELAY(S)	
RLY801	RSY0005-1C	RELAY	⚠
		CONNECTOR(S) & SOCKET(S)	
CN1	SJS5077&JQ	SOCKET(7P)	
CN1A	RJS4T5ZA	CONNECTOR(4P)	
CN2	SJS5097&JQ	SOCKET(9P)	
CN2A	SJT3711	CONNECTOR(7P)	
CN3	SJT3909	CONNECTOR(9P)	
CN201	RJS8T6ZA	CONNECTOR(8P)	Ⓜ
CN202	RJS4T6ZA	CONNECTOR(4P)	
CN203	RJS9T5ZA	CONNECTOR(9P)	
CN204	RJS7T5ZA	CONNECTOR(7P)	
CN206	RJP2G09YA	CONNECTOR(2P)	
CN251	RJS5T5ZA	CONNECTOR(5P)	
CN301	SJT31143-V	CONNECTOR(11P)	
CN551	RJS8T5ZA	CONNECTOR(8P)	
CN552	RJT003K008M1	CONNECTOR(8P)	
CN553	RJS6T5ZA	CONNECTOR(6P)	
CN602	SJT31143-V	CONNECTOR(11P)	
CN801-806	RJS1A1101	SOCKET(1P)	
CP301	RJP6G18ZA	SOCKET(6P)	
CP302	RJP4G18ZA	SOCKET(4P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CP552	RJU003K008M1	SOCKET(8P)	
		JACK(S)	
JK251	SJJ138	HEADPHONES JACK	
JK501	SJF3069N	AUX/CD JACK	
JK502	SJS804	PHONO TERMINAL	
JK601	SJF5406	SPEAKER TERMINAL	
JK651	RJH8201	ANT TERMINAL	Ⓜ
JK652	RJJ33TR01	REMOTE JACK	
JK653	SJS208	AM LOOP ANT TERMINAL	
JK801	SJS9236	AC INLET	⚠
		FLAT CABLE(S)	
W206	REX0321	FLAT CABLE(2P)	Ⓜ
		TEST POINT TERMINAL(S)	
TP1-5	QJT1090	TEST TERMINAL	
TP301	RJP5G1ZA	TEST TERMINAL(5P)	
TP401	RJP3G1ZA	TEST TERMINAL(3P)	

■ RESISTORS & CAPACITORS

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)
* Ⓜ Indicates in Values & Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R3, 4	ERDS2TJ104	1/4W 100K
R5	ERDS2TJ470	1/4W 47
R8	ERDS2TJ104	1/4W 100K
R9	ERDS2TJ272T	1/4W 2.7K
R10	ERDS2TJ154	1/4W 150K
R11	ERDS2TJ561	1/4W 560
R12	ERDS2TJ224T	1/4W 220K
R13	ERDS2TJ391	1/4W 390
R14	ERDS2TJ104	1/4W 100K
R15	ERDS2TJ471	1/4W 470
R16	ERDS2TJ181T	1/4W 180
R17	ERDS2TJ681	1/4W 680
R18	ERDS2TJ224T	1/4W 220K
R19	ERDS2TJ471	1/4W 470
R20	ERDS2TJ122	1/4W 1.2K
R21	ERDS2TJ224T	1/4W 220K
R22	ERDS2TJ103	1/4W 10K
R23	ERDS2TJ151	1/4W 150
R24	ERDS2TJ562	1/4W 5.6K
R25	ERDS2TJ332	1/4W 3.3K
R26	ERDS2TJ102	1/4W 1K
R27	ERDS2TJ104	1/4W 100K
R28	ERDS2TJ562	1/4W 5.6K
R29	ERDS2TJ681	1/4W 680
R30	ERDS2TJ683	1/4W 68K
R31	ERDS2TJ102	1/4W 1K
R32	ERDS2TJ682T	1/4W 6.8K
R36	ERDS2TJ822	1/4W 8.2K
R37	ERDS2TJ222	1/4W 2.2K
R38	ERDS2TJ223	1/4W 22K
R39	ERDS2TJ122	1/4W 1.2K
R40, 41	ERDS2TJ102	1/4W 1K
R42	ERDS2TJ104	1/4W 100K
R43	ERDS2TJ822	1/4W 8.2K
R44	ERDS2TJ103	1/4W 10K
R45	ERDS2TJ222	1/4W 2.2K
R46	ERDS2TJ223	1/4W 22K
R47	ERDS2TJ151	1/4W 150
R50	ERDS2TJ102	1/4W 1K
R51	ERDS2TJ472	1/4W 4.7K
R52	ERDS2TJ391	1/4W 390
R53	ERDS2TJ683	1/4W 68K
R54	ERDS2TJ153	1/4W 15K
R55	ERDS2TJ561	1/4W 560
R57	ERDS2TJ104	1/4W 100K
R58	ERDS2TJ103	1/4W 10K
R59, 60	ERDS2TJ562	1/4W 5.6K
R61	ERDS2TJ561	1/4W 560
R62	ERDS2TJ103	1/4W 10K
R63, 64	ERDS2TJ102	1/4W 1K
R65	ERDS2TJ153	1/4W 15K
R66	ERDS2TJ332	1/4W 3.3K
R67	ERDS2TJ102	1/4W 1K
R68	ERDS2TJ391	1/4W 390
R73	ERDS2TJ103	1/4W 10K
R75	ERDS2TJ822	1/4W 8.2K
R201-203	ERDS2TJ473	1/4W 47K
R205, 206	ERDS2TJ104	1/4W 100K
R207, 208	ERDS2TJ681	1/4W 680
R209-211	ERDS2TJ103	1/4W 10K
R212	ERDS2TJ222	1/4W 2.2K
R213, 214	ERDS2TJ103	1/4W 10K
R215-217	ERDS2TJ472	1/4W 4.7K
R218	ERDS2TJ103	1/4W 10K
R219	ERDS2TJ394	1/4W 390K
R220	ERDS2TJ103	1/4W 10K
R221	ERDS2TJ563	1/4W 56K
R222	ERDS2TJ123	1/4W 12K
R223-228	ERDS2TJ104	1/4W 100K
R230	ERDS2TJ681	1/4W 680
R231	ERDS2TJ223	1/4W 22K
R233	ERDS2TJ104	1/4W 100K
R235	ERDS2TJ104	1/4W 100K
R238-240	ERDS2TJ104	1/4W 100K
R241-243	ERDS2TJ103	1/4W 10K
R244	ERDS2TJ104	1/4W 100K
R246-249	ERDS2TJ104	1/4W 100K
R265-270	ERDS2TJ101	1/4W 100
R279	ERDS2TJ221	1/4W 220
R280	ERDS1FVJ100T	1/2W 10 ⚠
R281	ERDS2TJ103	1/4W 10K
R282	ERDS2TJ822	1/4W 8.2K
R283	ERDS2TJ103	1/4W 10K
R284	ERDS2TJ822	1/4W 8.2K
R285	ERDS2TJ103	1/4W 10K
R286	ERDS2TJ333	1/4W 33K
R287	ERDS2TJ473	1/4W 47K
R288	ERDS2TJ103	1/4W 10K
R289	ERDS2TJ103	1/4W 10K
R295	ERDS2TJ103	1/4W 10K
R296	ERDS2TJ472	1/4W 4.7K
R297	ERDS2TJ473	1/4W 47K
R298, 299	ERDS2TJ472	1/4W 4.7K
R301, 302	ERDS2TJ101	1/4W 100
R303, 304	ERDS2TJ104	1/4W 100K
R307, 308	ERDS2TJ330	1/4W 33
R309, 310	ERDS2TJ104	1/4W 100K
R311, 312	ERDS2TJ472	1/4W 4.7K
R313, 314	ERDS2TJ332	1/4W 3.3K
R315, 316	ERDS2TJ472	1/4W 4.7K
R317, 318	ERDS2TJ224T	1/4W 220K
R319, 320	ERDS2TJ332	1/4W 3.3K
R321, 322	ERDS2TJ224T	1/4W 220K
R323, 324	ERDS2TJ472	1/4W 4.7K
R325, 326	ERDS2TJ560T	1/4W 56
R329, 330	ERDS2TJ472	1/4W 4.7K
R333, 334	ERDS2TJ101	1/4W 100
R335	ERDS2TJ225	1/4W 2.2M
R336	ERDS2TJ225	1/4W 2.2M
R337, 338	ERDS2TJ224T	1/4W 220K
R339	ERDS2TJ223	1/4W 22K
R340	ERDS2TJ102	1/4W 1K
R341, 342	ERDS2TJ103	1/4W 10K
R343	ERDS2TJ221	1/4W 220
R344	ERDS2TJ472	1/4W 4.7K
R345	ERDS2TJ332	1/4W 3.3K
R346	ERDS2TJ223	1/4W 22K
R347	ERDS2TJ104	1/4W 100K
R348	ERDS2TJ103	1/4W 10K
R349	ERDS2TJ224T	1/4W 220K
R350	ERDS2TJ223	1/4W 22K
R351, 352	ERDS2TJ333	1/4W 33K
R353, 354	ERDS2TJ103	1/4W 10K
R355	ERDS2TJ102	1/4W 1K
R356	ERDS2TJ104	1/4W 100K
R371, 372	ERDS2TJ103	1/4W 10K
R373, 374	ERDS2TJ155	1/4W 1.5M
R375, 376	ERDS2TJ104	1/4W 100K
R377, 378	ERDS2TJ123	1/4W 12K
R379, 380	ERDS2TJ103	1/4W 10K
R381, 382	ERDS2TJ682T	1/4W 6.8K
R383, 384	ERDS2TJ104	1/4W 100K
R385, 386	ERDS2TJ330	1/4W 33
R387, 388	ERDS2TJ821	1/4W 820
R389	ERDS2TJ472	1/4W 4.7K
R390	ERDS2TJ104	1/4W 100K
R391-394	ERDS2TJ472	1/4W 4.7K
R395, 396	ERDS2TJ152	1/4W 1.5K
R397, 398	ERDS2TJ472	1/4W 4.7K
R399, 400	ERDS2TJ222	1/4W 2.2K
R401, 402	ERDS2TJ4R7T	1/4W 4.7
R403, 404	ERDS2TJ333	1/4W 33K
R405	ERDS1FVJ680T	1/2W 68 ⚠
R406	ERDS2TJ561	1/4W 560

Ref. No.	Part No.	Values & Remarks
R407	ERDS2TJ681	1/4W 680
R408	ERDS2TJ222	1/4W 2.2K
R409	ERDS2TJ682T	1/4W 6.8K
R410	ERDS2TJ1R0	1/4W 1.0
R411, 412	ERDS2TJ224T	1/4W 220K
R413, 414	ERDS2TJ332	1/4W 3.3K
R415, 416	ERDS2TJ103	1/4W 10K
R417, 418	ERDS2TJ473	1/4W 47K
R419, 420	ERDS2TJ272T	1/4W 2.7K
R421, 422	ERDS2TJ682T	1/4W 6.8K
R423	ERDS2TJ222	1/4W 2.2K
R424	ERDS2TJ102	1/4W 1K
R425	ERDS2TJ433	1/4W 43K
R426	ERDS2TJ103	1/4W 10K
R427	ERDS2TJ221	1/4W 220
R428	ERDS2TJ103	1/4W 10K
R429	ERDS2TJ472	1/4W 4.7K
R430	ERDS2TJ104	1/4W 100K
R431, 432	ERDS2TJ562	1/4W 5.6K
R433, 434	ERDS2TJ102	1/4W 1K
R435	ERDS2TJ104	1/4W 100K
R436	ERDS2TJ473	1/4W 47K
R437	ERDS2TJ332	1/4W 3.3K
R438	ERDS2TJ472	1/4W 4.7K
R439	ERDS2TJ473	1/4W 47K
R440	ERDS2TJ102	1/4W 1K
R441, 442	ERDS2TJ122	1/4W 1.2K
R443, 444	ERDS2TJ682T	1/4W 6.8K
R445	ERDS2TJ222	1/4W 2.2K
R446	ERDS2TJ103	1/4W 10K
R447	ERDS2TJ102	1/4W 1K
R449	ERDS2TJ222	1/4W 2.2K
R460	ERDS2TJ681	1/4W 680
R480	ERDS2TJ222	1/4W 2.2K
R501, 502	ERDS2TJ223	1/4W 22K
R503, 504	ERDS2TJ332	1/4W 3.3K
R505, 506	ERDS2TJ223	1/4W 22K
R507, 508	ERDS2TJ682T	1/4W 6.8K
R509, 510	ERDS2TJ153	1/4W 15K
R511, 512	ERDS2TJ272T	1/4W 2.7K
R513	ERDS2TJ221	1/4W 220
R514-518	ERDS2TJ103	1/4W 10K
R519, 520	ERDS2TJ105T	1/4W 1M
R521, 522	ERDS2TJ472	1/4W 4.7K
R523, 524	ERDS2TJ561	1/4W 560
R529	ERDS2TJ221	1/4W 220
R551, 552	ERDS2TJ472	1/4W 4.7K
R553, 554	ERDS2TJ473	1/4W 47K
R555, 556	ERDS2TJ102	1/4W 1K
R557	ERDS2TJ472	1/4W 4.7K
R559, 560	ERDS2TJ102	1/4W 1K
R565-568	ERDS2TJ473	1/4W 47K

Ref. No.	Part No.	Values & Remarks
R569, 570	ERDS2TJ391	1/4W 390
R571, 572	ERDS2TJ472	1/4W 4.7K
R573, 574	ERDS2TJ183	1/4W 18K
R579, 580	ERDS2TJ333	1/4W 33K
R581, 582	ERDS2TJ104	1/4W 100K
R583, 584	ERDS2TJ682T	1/4W 6.8K
R585, 586	ERDS2TJ105T	1/4W 1M
R587, 588	ERDS2TJ681	1/4W 680
R589, 590	ERDS2TJ333	1/4W 33K
R591, 592	ERDS2TJ682T	1/4W 6.8K
R593, 594	ERDS2TJ102	1/4W 1K
R595	ERDS2TJ221	1/4W 220
R596	ERDS2TJ394	1/4W 390K
R597	ERDS2TJ333	1/4W 33K
R598	ERDS2TJ104	1/4W 100K
R599	ERDS2TJ221	1/4W 220
R600	ERDS2TJ471	1/4W 470
R601, 602	ERDS2TJ222	1/4W 2.2K
R603, 604	ERDS2TJ224T	1/4W 220K
R605, 606	ERDS2TJ102	1/4W 1K
R607, 608	ERQ14AJ2R2P	1/4W 2.2
R609, 610	ERDS2TJ223	1/4W 22K
R611	ERDS2TJ104	1/4W 100K
R612	ERDS2TJ103	1/4W 10K
R613	ERDS2TJ104	1/4W 100K
R651	ERDS2TJ824	1/4W 820K
R652	ERDS2TJ104	1/4W 100K
R653	ERDS2TJ471	1/4W 470
R654	ERDS2TJ822	1/4W 8.2K
R655	ERDS2TJ104	1/4W 100K
R656	ERDS2TJ473	1/4W 47K
R657	ERDS2TJ102	1/4W 1K
R658, 659	ERDS2TJ473	1/4W 47K
R661, 662	ERDS2TJ103	1/4W 10K
R663, 664	ERDS2TJ123	1/4W 12K
R671	ERDS2TJ154	1/4W 150K
R672	ERDS2TJ224T	1/4W 220K
R673-676	ERDS2TJ103	1/4W 10K
R701-704	ERDS2TJ472	1/4W 4.7K
R709	ERDS2TJ102	1/4W 1K
R803	ERD2FCVJ4R7T	1/4W 4.7 ⚠
R804	ERDS1FVJ122T	1/2W 1.2K ⚠
R805	ERDS2TJ101	1/4W 100
R806	ERD2FCVJ4R7T	1/4W 4.7 ⚠
R807	ERDS1FVJ1R0T	1/2W 1 ⚠
R808	ERG2ANJ100	2W 10
R809	ERD2FCG821	1/4W 820 ⚠
R810	ERDS2TJ101	1/4W 100
R811	ERD2FCVJ4R7T	1/4W 4.7 ⚠
R812	ERDS1FVJ221T	1/2W 220 ⚠
R813	ERDS1FVJ331T	1/2W 330 ⚠
R814	ERD2FCVG330T	1/4W 33 ⚠

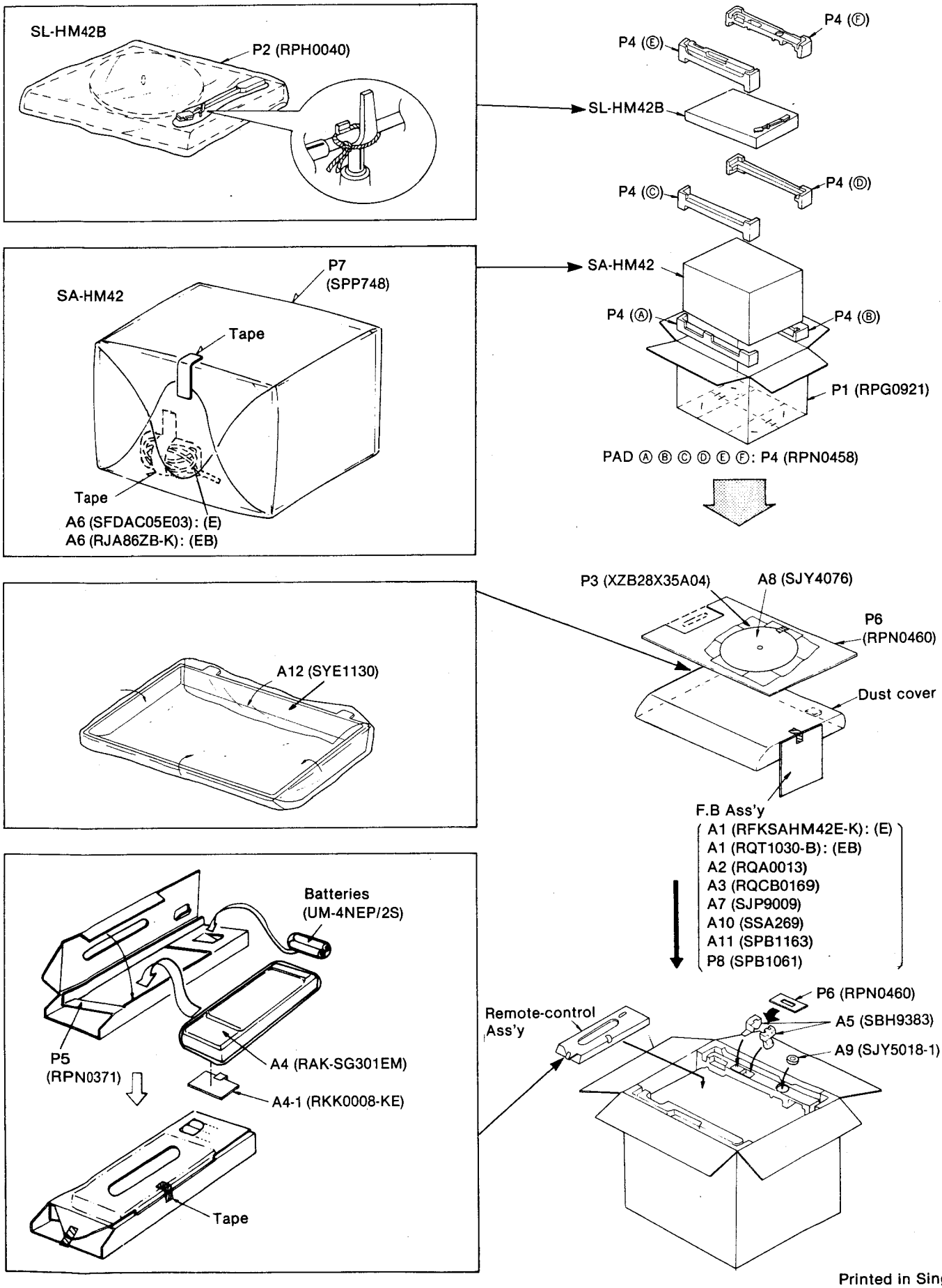
Ref. No.	Part No.	Values & Remarks
R815	ERDS2TJ222	1/4W 2.2K
R816	ERDS2TJ332	1/4W 3.3K
R817	ERDS2TJ821	1/4W 820
R818	ERDS1FJ4R7	1/2W 4.7 ⚠
R819	ERG1ANJP120S	1W 12
R820	ERDS1FVJ680T	1/2W 68 ⚠
R821	ERDS2TJ562	1/4W 5.6K
R822, 823	ERDS2TJ153	1/4W 15K
R824	ERDS2TJ182	1/4W 1.8K
R825	ERDS1FVJ331T	1/2W 330 ⚠
R951	ERDS2TJ103	1/4W 10K
R952-955	ERDS2TJ472T	1/4W 4.7K
R957, 958	ERDS2TJ303	1/4W 30K
R959	ERDS2TJ153	1/4W 15K
R960	ERDS2TJ102	1/4W 1K
R961	ERDS2TJ105T	1/4W 1M
R962	ERDS2TJ102	1/4W 1K
R963, 964	ERDS2TJ471	1/4W 470
R965	ERDS2TJ103	1/4W 10K
R970	ERDS2TJ332	1/4W 3.3K
		CAPACITORS
C3	ECBT1H3R3KC5	50V 3.3P
C4	ECBT1H6R8KC5	50V 6.8P
C5	ECBT1H102KB5	50V 1000P
C8	ECBT1H102KB5	50V 1000P
C9	ECBT1H8R2KC5	50V 8.2P
C10	ECBT1H180JC5	50V 18P
C11	ECBT1H3R3KC5	50V 3.3P
C12	ECBT1H3R3KC5	50V 3.3P
C13	ECBT1H181KB5	50V 180P
C14	ECBT1H4R7KC5	50V 4.7P
C16	ECBT1C103NS5	16V 0.01U
C17, 18	ECBT1C103NS5	16V 0.01U
C19	ECBT1H102KB5	50V 1000P
C21	ECBT1H180JC5	50V 18P
C22	ECBT1H181KB5	50V 180P
C23, 24	ECBT1C103NS5	16V 0.01U
C25	ECEA1CU100	16V 10U
C27	ECBT1H150JC5	50V 15P
C29	ECEA0JU101B	6.3V 100U
C30	ECEA1EU4R7	25V 4.7U
C31, 32	ECFR1C223MR	16V 0.022U
C33	ECEA1CU101	16V 100U
C34	ECFR1C153KR	16V 0.015U
C35	ECBT1C103NS5	16V 0.01U
C36	ECEA1HU2R2	50V 2.2U
C37	ECBT1H102KB5	50V 1000P
C38	ECFR1C153KR	16V 0.015U
C39	ECEA1HU010	50V 1U
C40, 41	ECEA1HUR47	50V 0.47U

Ref. No.	Part No.	Values & Remarks
C42	ECQP1H102JZ3	50V 1000P Ⓜ
C47	ECFR1C473MR	16V 0.047U
C49	ECBT1H8R2KC5	50V 8.2P
C65	ECBT1H180JC5	50V 18P
C66, 67	ECBT1C103NS5	16V 0.01U
C68	ECEA1HU010	50V 1U
C69	ECEA1HUR47	50V 0.47U
C70	ECEA1CU100	16V 10U
C71	ECBT1C103NS5	16V 0.01U
C72	ECBT1H101KB5	50V 100P
C73	ECBT1C103NS5	16V 0.01U
C74	ECBT1H150JC5	50V 15U
C75	ECEA1HU2R2	50V 2.2U
C76	ECBT1C103NS5	16V 0.01U
C78	ECEA25M4R7R	50V 4.7U
C79, 80	ECBT1C103NS5	16V 0.01U
C82	ECEA1HU010	50V 1U
C83	ECEA1CU330	16V 33U
C84	ECBT1C103NS5	16V 0.01U
C86, 87	ECBT1H150JC5	50V 15P
C92	ECBT1H102KB5	50V 1000P
C93	ECEA1CU330	16V 33U
C96	ECEA1CU330	16V 33U
C201, 202	ECEA1HUR33	50V 0.33U
C203-205	ECBT1C103MS5	16V 0.01U
C206	ECEA1HU0R1	50V 0.1U
C208	ECEA0JU101B	6.3V 100U
C209	ECEA0JU102	6.3V 1000U
C211	EECF5R5U105	5.5V 1U
C214	ECQM1H224JZ	50V 0.22U
C215-221	ECBT1H101KB5	50V 100P
C228	ECEA1CU100	16V 10U
C231	ECEA1CF470	16V 47U
C263	ECEA1CU470	16V 47U
C301, 302	ECBA1H681KB5	50V 680P
C305, 306	ECEA0JU101B	6.3V 100U
C307, 308	ECFR1C333MR	16V 0.033U
C309, 310	ECEA1EU4R7	25V 4.7U
C311	ECEA1CU221	16V 220U
C312	ECEA1CU470	16V 47U
C313	ECEA1CU100	16V 10U
C315, 316	ECFR1C153KR	16V 0.015U
C317, 318	ECFR1C123JR	16V 0.012U
C319, 320	ECBT1H561KB5	50V 560P
C323, 324	ECBT1H102KB5	50V 1000P
C325, 326	ECBT1C103NS5	16V 0.01U
C341, 342	ECBT1H181KB5	50V 180P
C343, 344	ECBT1H121KB5	50V 120P
C345, 346	ECBT1H102KB5	50V 1000P
C347, 348	ECEA1HU010	50V 1U
C349, 350	ECFR1C103KR	16V 0.01U
C351, 352	ECEA1HUR22	50V 0.22U

Ref. No.	Part No.	Values & Remarks
C353-356	ECFR1C183KR	16V 0.018U
C357, 358	ECFR1C473JR	16V 0.047U
C361	ECEA1EU4R7	25V 4.7U
C367, 368	ECBT1H121KB5	50V 120P
C369, 370	ECBT1H471KB5	50V 470P
C375	ECEA1CU100	16V 10U
C376	ECEA1EU4R7	25V 4.7U
C400	ECEA1HU010	50V 1U
C401	ECFR1C153KR	16V 0.015U
C402	ECQP1H123JZ3	50V 0.012U Ⓜ
C403, 404	ECFR1C332KR	16V 3300P Ⓜ
C405	ECFR1C682KR	16V 6800P
C406	ECEA1CU470	16V 47U
C407	ECFR1C152KR	16V 1500P Ⓜ
C409	ECFR1C104MR	16V 0.1U
C415, 416	ECFR1C472JR	16V 4700P
C417-420	ECEA1HU010	50V 1U
C421	ECEA1AU471	10V 470U
C422	ECEA1CU471	16V 470U
C424	ECEA1CU470	16V 47U
C425, 426	ECEA1CU100	16V 10U
C427, 428	ECEA1HKR68	50V 0.68U
C429, 430	ECEA1CU100	16V 10U
C431	ECEA1EU4R7	25V 4.7U
C432	ECEA1CU100	16V 10U
C433	ECEA1HUR33	50V 0.33U
C460	ECEA1CU220	16V 22U
C480	ECFR1C104MR	16V 0.1U
C481	ECKW1H222KB5	50V 2200P
C501, 502	ECEA1HU010	50V 1U
C503, 504	ECBT1H102KB5	50V 1000P
C505, 506	ECEA1HU010	25V 1U
C507	ECEA1CU470	16V 47U
C508	ECFR1C104MR	16V 0.1U
C509-511	ECBT1H470J5	50V 47P
C551, 552	ECEA1HU010	50V 1U
C553, 554	ECEA1HU010	50V 1U
C555, 556	ECEA1CU100	16V 10U
C557, 558	ECBT1H471KB5	50V 470P
C559, 560	ECBT1H102KB5	50V 1000P
C561, 562	ECFR1C333MR	16V 0.033U
C563, 564	ECBT1C332MR5	16V 3300P
C565, 566	ECEA1HU0R1	50V 0.1U
C567, 568	ECFR1C473MR	16V 0.047U
C569, 570	ECBT1C103MS5	16V 0.01U
C571, 572	ECEA1HU010	50V 1U
C573, 574	ECBT1C103MS5	16V 0.01U
C575, 576	ECEA1HUR33	50V 0.33U
C577, 578	ECFR1C153KR	16V 0.015U
C579	ECEA1HU010	50V 1U
C580	ECEA1HK010B	50V 1U
C581	ECEA1HUR22	50V 0.22U

Ref. No.	Part No.	Values & Remarks
C582	ECEA1HKR22B	50V 0.22U
C583, 584	ECFR1C333MR	16V 0.033U
C585, 586	ECBT1H471KB5	50V 470P
C587-590	ECEA1HU010	50V 1U
C591, 592	ECBT1H102KB5	50V 1000P
C593	ECEA1CU471	16V 470U
C594	ECEA1CU221	16V 220U
C596	ECEA1HU010	50V 1U
C597, 598	ECEA1HUR33	50V 0.33U
C599	ECEA0JU101B	6.3V 100U
C600	ECEA1CU100	16V 10U
C601, 602	ECEA1HU010	50V 1U
C603-606	ECEA1EU470	25V 47
C607, 608	ECFR1E104KR	25V 0.1U
C609, 610	ECEA1EU102E	25V 1000U
C611, 612	ECBT1H471KB5	50V 470P
C620	ECEA1EU100	25V 10U
C651, C652	ECEA1HU010	50V 1U
C653	ECFR1C392JR	16V 3900P
C656	ECKR1H103ZF5	50V 0.01U
C657	ECBT1H102KB5	50V 1000P
C658	ECKR1H103ZF5	50V 0.01U
C659	ECBT1H102KB5	50V 1000P
C660, 661	ECBT1H101KB5	50V 100P
C671-674	ECFR1C104MR	16V 0.1U
C801-804	ECKR1H103ZF5	50V 0.01U
C805	ECEA1VU472E	35V 4700U
C806	ECKT1H682MD	50V 6800P
C807, 808	ECEA1CU101	16V 100U
C810	ECEA1AU101	10V 100U
C811	ECKD1H682KB	50V 6800P
C812	ECEA1CU221	16V 220U
C813	ECEA1CU101	16V 100U
C814	ECEA1AU101	10V 100U
C815	ECKR1H103ZF5	50V 0.01U
C816	ECEA1VU471	35V 470U
C817	ECEA1AU101	10V 100U
C818	ECEA1CU330	16V 33U
C819	ECKR1H103ZF5	50V 0.01U
C820	ECEA1CU101	16V 100U
C821	ECEA1HU331	50V 330U
C822	ECKT1H682MD	50V 6800P
C823	ECEA1CU101	16V 100U
C824	ECEA1CU100	16V 10U
C825	ECEA1CU101	16V 100U
C826	ECKR1H103ZF5	50V 0.01U
C830	ECBT1H102KB5	50V 1000P
C951	ECEA1CU330	16V 33U
C952	ECEA1CU101	16V 100U
C953	ECEA1HU4R7	50V 4.7U

■ PACKING (System of SG-HM42)



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ORDER NO. MD9307074S8

5080

Service Manual

Supplement

Stereo Music System

SA-HM42

QUARTZ Synthesizer
Stereo Radio with Double Cassette Tape Deck

Colour

(K) . . . . . Black Type

.Please file and use this Supplement Manual together with the Service Manual for Model No: SA-HM42 E,EB-K Order No. MD9105029C2
SA-HM42 GN-K MD9106067A3
SA-HM42 GC-K MD9107059C3

.The Tape Mechanism's motor has been modified for cost reduction during mid-production.

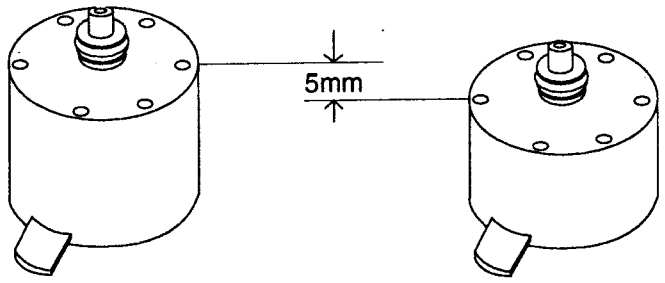
Area

Suffix for Model No.	Area	
(E)	Continental Europe	(K)
(EB)	Great Britain	
(GN)	Oceania	
(GC)	Asia, Latin America Middle Near East and Africa	

CORRECTION

■ HOW TO IDENTIFY THE UNITS WITH NEW MOTOR

The physical appearance difference between the old and new Motor is as illustrated:



OLD MOTOR **NEW MOTOR**

■ REPLACEMENT PARTS LIST

Notes: * [M] in the Remarks column indicates parts that are supplied by **MESA**.

Ref. No.	Description	Change of Parts Number Original → Supplement		Remarks
MECHANISM PARTS LIST				
260	DC MOTOR ASS'Y	RFKPCT090P-K	RFKPXDT610PK	CHANGED
RESISTORS				
R958	RESISTOR 27K 1/4W	ERDS2TJ303T	ERDS2TJ273	CHANGED

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Service Manual

Supplement-1

QUARTZ Synthesizer MW/LW/FM [MW/SW1/SW2/FM .... (GC)] Stereo Radio with Double Cassette Tape Deck

Stereo Music System

SA-HM42

Colour

(K) ... Black Type

- Please file and use this Supplement Manual together with the Service Manual for Model No. SA-HM42 E,EB Order No. MD9105029C2
  SA-HM42 GC MD9107059C3
  SA-HM42 GN MD9106067A3
- This supplement is intended to provide additional information or corrections to the existing service manual for model No. SA-HM42. Be sure to update your service manual for future reference.
- The mechanism unit in Model SA-HM42 has been modified during mid-production for improved operation.
  Major change of old mechanism to modified mechanism :

  R/P HEAD ⇨ AZTEC HEAD.

  AZTEC HEAD : R/P Head with self alignment capability of azimuth.

Area

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Great Britain	
(GC)	Asia, Latin America, Middle Near East and Africa	
(GN)	Oceania	

■ How to identify the unit with a modified mechanism

1. The unit with a modified mechanism can be identified by their serial number suffix label affixed on the rear side of the unit. (Refer to Table 1)
   A serial number consists of 10 aphanumeric characters.
   A unit with a modified mechanism has a "F" onward suffix number.
2. The modified mechanism can also be identified by a Ⓐmarking on the Head Panel of the mechanism. (Refer to Figures1 & 2)

eg.

○○○○○○○○○○

SUFFIX

D U 1 E Ⓑ 2 3 4 5 6 (Old mechanism)

⇩

D U 1 E Ⓕ 2 3 4 5 6 (Modified mechanism)

↖ suffix "F" onward is modified mechanism

[Table 1]

Applicable Model	Serial No. Suffix
SA-HM42 GC	F
SA-HM42 GN	H

• This Service Manual Supplement is strictly used for unit with a modified mechanism.

⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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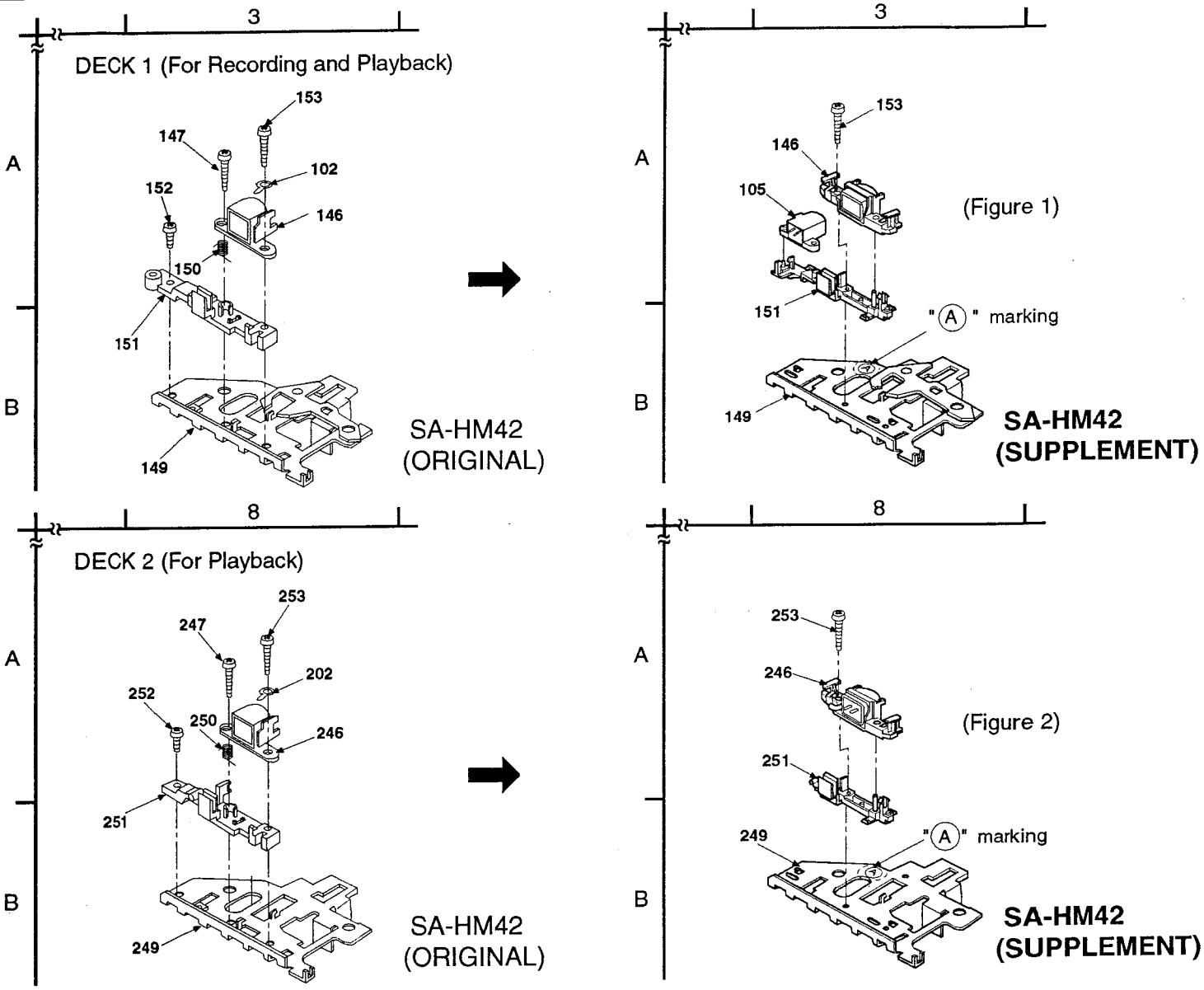
■ MECHANISM PARTS LOCATION



■ PARTS COMPARISON TABLE

Notes : [M] Indicates parts that are supplied by **MESA**.

Ref. No.	Description		Change of Parts Number		Remarks
			Original	➡ Supplement	
MECHANISM PARTS LIST					
102,202	EARTH LUG	[M]	RJR0033	———	(Deleted)
146,246	R/P HEAD	[M]	RBR4CM001-M	RBR4CY016-M	(Changed)
147,247	AZIMUTH SCREW	[M]	RHD20003	———	(Deleted)
149,249	HEAD PANEL	[M]	RMA0107	RMA0696	(Changed)
151	HEAD BASE (DECK 1)	[M]	RMR0159	RMQ0383	(Changed)
150,250	SPRING	[M]	RMB0059	———	(Deleted)
251	HEAD BASE (DECK 2)	[M]	RMR0149	RMQ0384	(Changed)
152,252	SCREW		XTN2+4F	———	(Deleted)
153,253	SCREW	[M]	XTN2+8F	XTN2+12F	(Changed)

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